

PDP-11 Software Source Book

Volume 1 Applications Software, Fourth Edition June 1985



digital



Volume 1
Applications Software

PDP-11

Software Source Book

Fourth Edition

digital

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Introduction:

How to Use This Book

In presenting this fourth edition of the *PDP-11 Software Source Book*, DIGITAL takes pride in helping you find solutions to your particular PDP-11 software problems. This book describes more than 2400 PDP-11 software products, approximately 14% more than the third edition; future editions are expected to contain many more applications. These books are intended to keep you abreast of the ever-growing body of PDP-11 software.

The software products listed in this book are working in a wide range of businesses and organizations and are available for your use. These products cover many application areas, from handling orders and accounts receivable for wholesalers of food and health and beauty aids to material-requirements planning for large-scale manufacturing operations. Some software products might be just what you need, others might be useful to you in the future, and still others might suggest uses you had not yet considered. Whatever your software need, one or more of the products described in this book can provide you with PDP-11 solutions.

Roadmaps into the Book

The *PDP-11 Software Source Book* consists of two volumes: Volume 1 describes applications software — topics such as Accounting, Information Management, and Research. Volume 2 describes systems software — topics such as Communications, Language Processors, and Operating Systems — and also contains cross-reference material.

The two volumes contain seven paths to the information contained within them:

- **Contents** — Lists the industries and generic disciplines in the two volumes.
- **Keyword Cross-Reference Guide** — Groups all the software products in the two volumes by keyword, such as "Banking" and "Simulation," and indicates the major PDP-11 operating systems on which they run.

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- **Operating System Cross-Reference Guide** — Groups software products in the two volumes by industry/generic discipline and indicates the major PDP-11 operating systems on which the products run.
- **Product Title List** — Alphabetically lists the software products in the two volumes.
- **DIGITAL Product Title List** — Alphabetically lists software products available through DIGITAL.
- **Vendor Product Title List** — Alphabetically lists product suppliers and their products.
- **Index** — Alphabetically lists industries/disciplines and keyword usage within each industry/discipline.

These roadmaps can help you find specific software products or topics. For example, if you do not find a product after consulting the Keyword Cross-Reference Guide, try the Index. If you know the name of a product, check the Product Title List. To determine what products are available for major PDP-11 operating systems, refer to the Operating System Cross-Reference Guide. Also, you can scan both volumes for possible products.

Format of an Entry

Entries in this book are presented in the following format:

- ① **Software Title:** A typical product name is an acronym followed by the full title in parentheses.
- ② **Operating System:** This portion of the entry lists operating systems on which the software product runs. When planning to purchase a software product, you must consider what operating system you have. In that way, you ensure that the software product you purchase will run on your hardware.
- ③ **Keywords:** These words define a software product. They give you a quick idea of the product's function and application without your having to read the entire description.
- ④ **Description:** This portion of the entry describes the product's features and capabilities.
- ⑤ **Price:** Unless otherwise indicated, the cost is expressed in U.S. dollars and is frequently given as a range. The price you pay may depend on such factors as maintenance costs; required level of support; the degree of customization, the size, and the number of computers on which you intend to run the product; and in the case of multimodule products, which modules you require.
- ⑥ **Contact:** Call or write to the contact person or company for more information on the software product. The telephone number, company name, and address are listed.

A typical entry follows:

- ① **WORDAID (Word Processor for Scientific Research)**
- ② **Operating System:** RSTS, RSX, RT-11
- ③ **Keywords:** • Research • Scientific • Text management
• Word processing
- ④ A word processing program specifically designed for scientific research, WORDAID generates a table of contents, performs footnoting and indexing, and produces a scientific bibliography. The program allows users to update research material with ease.

A version of this product is available for the VAX computer.
- ⑤ **Price:** \$1000 – \$2000
- ⑥ **Contact:** Joseph C. Zycoff, Technical Sales Manager
(212) 123-4567
ZYGOTE SYSTEMS, INC.
789 West 43rd Street
New York, NY 00123

Other Useful Information

Software products differ in their hardware configuration requirements. Additionally, some software products require other software to work. Ask the software supplier to specify precisely what hardware and related software, if any, are required for the product to work properly in your installation.

DIGITAL Classified Software: DIGITAL markets some internally and externally developed quality software as DIGITAL Classified Software (DCS). Third-party software products accepted into this program have been tested against the established DCS quality standard. In DIGITAL's judgment, these products are easy to install and use and are well documented. DCS products are provided subject to the limited warranty on the applicable Software Product Description (SPD).

Some products are sold by the developer in North American countries but are DCS products in other countries. DCS software products described in this book are intended for use only in North America. Customers outside the United States and Canada should contact their nearest DIGITAL sales office for further information on purchasing DCS software products listed in this book.

DIGITAL Products: DIGITAL sells and supports some products described in this book. A DIGITAL-supported product is warranted as described for the period specified in the SPD.

To purchase a DIGITAL software or hardware product, contact your local sales office. For the location of your nearest DIGITAL sales office, dial 1-800-DIGITAL.

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DECUS Products: Digital Equipment Computer Users Society (DECUS), supported in part by DIGITAL, exists to provide a forum in a noncommercial environment for the interchange of computer information. The DECUS Program Library contains products written and submitted by users. Unless otherwise noted, software products from the Program Library contain all sources necessary to modify a product to your needs.

DECUS distributes products for nominal service charges. However, the DECUS Program Library is only a clearinghouse; it supplies all products and information "as is." Neither DECUS nor DIGITAL provides software support for DECUS products.

For information on how to join DECUS or to obtain a DECUS catalog, write to:

DECUS Membership
249 Northboro Road
BPO2
Marlboro, MA 01752-3011

Related Publications: Several publications may be of interest to PDP-11 users. The *ULTRIX Software Guidebook* (order number EJ-26153-20) contains descriptions of ULTRIX- and UNIX*-based software products that run on the PDP-11 and VAX computers. The *PDP-11 Software Handbook* (order number EB-25398-41) provides more information on DIGITAL software products. The *PDP-11 Systems and Options Catalog* (order number ED-27252-41) provides summary information on PDP-11 computers, peripherals, and software.

For more information on specific PDP-11 computers, consult one of the following handbooks. For the larger PDP-11 computers and computer systems, consult the *PDP-11 Unibus Processor Handbook* (order number EB-26077-41); for information on microcomputers sold in board form, refer to *Microcomputers and Memories* (order number EB-20912-DP). For information on the new Winchester disk-based MicroPDP-11 computer, consult the *Microsystems Handbook* (order number EB-26085-41).

You may order a copy of any of these related publications either from your local DIGITAL sales office or from:

Digital Press
12A Esquire Road
Billerica, MA 01862-2587
1-800-343-8321

* UNIX is a trademark of AT&T Bell Laboratories.

Custom Software: Many vendors listed in this book will tailor their software products to fit your needs or will develop an entire product on a contract basis. Thus, although products listed here may not match your needs exactly, this book may lead you to vendors that will provide suitable custom software. DIGITAL also undertakes such projects, and you may want to discuss your software needs with your DIGITAL sales representative. Dial 1-800-DIGITAL for the location of your nearest DIGITAL sales office.

How to Order Additional Books

To order additional copies of this book or to receive a free copy of other DIGITAL Software Source Books, send in one of the business reply cards at the back of Volume 2, contact your local DIGITAL sales office, or write to:

Attn.: G. DeForge
Digital Equipment Corporation
Printing and Circulation Services
444 Whitney Street
Northboro, MA 01532-2599

Ask for each book by full title and order number.

How to Be Placed on Our Mailing List

If you wish to receive a free copy of the next edition of this book or other DIGITAL Software Source Books, send in one of the business reply cards at the back of Volume 2. If the cards are missing, write to:

Editor, Software Source Books
MLO5-5/E45
Digital Equipment Corporation
146 Main Street
Maynard, MA 01754-2571

or phone: (617) 493-3200.

How to Have Your Software Product Listed

If you wish to include your software product(s) in one or more of DIGITAL's Software Source Books, read "How to Have Your Software Product Listed" at the end of Volume 2 and complete the entry form following those instructions.

Applications Software



Accounting



Richard Wood/The Picture Cube

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A-to-Z Compu-Share™ Accounting Family Accounts Payable, Version 4.0

Operating System: Micro/RSX

Keywords: • A-to-Z • Accounts payable • Office systems

Distribution medium: RX50.

DIGITAL distributes this software product under license from Compu-Share, Inc.

This flexible, interactive accounts payable package lets the user modify certain parameter files to alter the package. The package has the following features:

- Vendor file, which allows vendors to be grouped into classes, thereby enhancing the reporting capabilities
- Posting payables through an interactive form, with an unlimited number of distributions allowed to general ledger accounts for each invoice posted
- Payables reporting
- Cash disbursements, with checks written (or hand checks posted) through the cash-disbursement program and full detail of all outstanding invoices displayed on the screen for each vendor
- Check writing that accommodates many check formats and check reconciliation, reporting, and voiding
- 1099 reporting
- Recurring accounts payable posting
- Maintenance of historical records and check register
- General ledger interface

A-to-Z Integrated System Version 1.0 is prerequisite.

Refer to SPD #A4.23.00 when requesting further information on this product from your local DIGITAL sales office.

Compu-Share™ is a trademark of Compu-Share, Inc.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

A-to-Z Compu-Share™ Accounting Family Accounts Receivable, Version 3.2

Operating System: Micro/RSX

Keywords: • A-to-Z • Accounts receivable • Office systems

Distribution medium: RX50.

DIGITAL distributes this software product under license from Compu-Share, Inc.

This interactive system is used to record accounts receivable data and to report information from the active files on user request. Open-item or balance-forward accounting is available on a customer-by-customer basis.

System features are as follows:

- Classification and maintenance of customer information through an interactive form
- Posting of receivable items through interactive screen entry
- Posting of cash receipts
- Charging of recurring accounts receivable to the account automatically on operator demand
- Automatic application of finance charges to past-due accounts according to a table of finance charge rates established by the user
- Statement generation
- Sales analysis of customer purchasing
- Reporting of aged receivables, invoice-payment analysis, and commissions
- User-definable tax entities
- Maintenance of historical records
- General ledger interface

A-to-Z Integrated System Version 1.0 is prerequisite.

Refer to SPD #A4.22.00 when requesting further information on this product from your local DIGITAL sales office.

Compu-Share™ is a trademark of Compu-Share, Inc.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

A-to-Z Compu-Share™ Accounting Family General Ledger, Version 4.1

Operating System: Micro/R SX

Keywords: • A-to-Z • General ledger • Office systems

Distribution medium: RX50.

DIGITAL distributes this software product under license from Compu-Share, Inc.

This menu-driven data collection and financial reporting package is designed for interactive use. Flexibility is built into the system by the use of parameter files that control financial statement reporting. The system has the following features:

- Chart of accounts
- Up to 13 accounting periods allowed

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- Journalizing in two forms — the standard form for entering debits and credits to any account in the chart of accounts and showing a balanced entry for each screen and an alternative form for experienced users to maximize data input speed
- Standard journal for postings and an allocation journal for distributing dollars from one account into multiple accounts, based on a percentage calculation
- Financial statement report writer
- Spreadsheet interface, which optionally creates files for use in the Supercomp-Twenty™ spreadsheet
- Account analysis
- Open-item accounting and multiple-level accounting

A-to-Z Integrated System Version 1.0 is prerequisite.

Refer to SPD #A3.94.00 when requesting further information on this product from your local DIGITAL sales office.

Compu-Share™ is a trademark of Compu-Share, Inc. Supercomp-Twenty™ is a trademark of Access Technology, Inc.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

A-to-Z Compu-Share™ Accounting Family Inventory Control, Version 1.1

Operating System: Micro/RXS

Keywords: • A-to-Z • Inventory • Office systems

Distribution medium: RX50.

DIGITAL distributes this software product under license from Compu-Share, Inc.

This perpetual-inventory package operates in conjunction with A-to-Z Compu-Share Accounting Family Order Entry and Accounts Receivable. The system has the following features:

- User-defined units of measure indicating how products are sold —for example, measurement, color, finishes, and types. Conversion tables establish relationships among the various units of measure.
- User-specified product costing method — LIFO, FIFO, or average-cost basis.
- Commitment of stock to fill an order as it is received, thereby committing quantities to fill back orders before stock is allocated to current orders.
- Two types of user-defined serial numbers.
- Physical-inventory processing and generation of a user-designed physical-count sheet.
- Back-order processor for filling back orders in a chronological or a preferred-customer order.

- Inventory movement, purchase analysis, inventory turns, and inventory stock reports.

A-to-Z Integrated System Version 1.0, A-to-Z Compu-Share Accounting Family Order Entry Version 1.1, and A-to-Z Compu-Share Accounting Family Accounts Receivable Version 3.2 are prerequisite.

Refer to SPD #A4.43.00 when requesting further information on this product from your local DIGITAL sales office.

Compu-Share™ is a trademark of Compu-Share, Inc.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

A-to-Z Compu-Share™ Accounting Family Order Entry, Version 1.1

Operating System: Micro/RSX

Keywords: • A-to-Z • Office systems • Order entry

Distribution medium: RX50.

DIGITAL distributes this software product under license from Compu-Share, Inc.

This comprehensive order entry, invoicing, and sales analysis system is menu driven and provides interactive operation. Designed to work closely with the Inventory Control module, Order Entry has the following features:

- Product identification with a 15-character product code, 120 characters of descriptive information, and a 3-character department, defined in the Accounts Receivable system
- Generic/inventoried products; if Inventory Control is not available, all products are generic — such as labor, service, freight and handling charges, or under a specified dollar value
- Product status — obsolete or replaced
- An 18-digit quantity field, with 8 characters to the right of the decimal point, for defining and invoicing fractional units of a product
- A user-specified pricing algorithm
- An unlimited number of units of measure for each product
- Support for multiple warehouses
- An order entry screen that can be tailored
- Inclusion in the order entry process of customer validation by customer number or a portion of the customer name and modification of the ship-to address on the order entry screen or by recall from the customer file

A-to-Z Integrated System Version 1.0 and A-to-Z Compu-Share™ Accounting Family Accounts Receivable Version 3.2, are prerequisite.

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Refer to SPD #A4.44.00 when requesting further information on this product from your local DIGITAL sales office.

Compu-Share™ is a trademark of Compu-Share, Inc.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

ABACUS

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts payable • Accounts receivable • Billing
• Payroll

This series of on-line and fully integrated systems is designed to perform many key functions for an accountant in private practice:

- Client Accounting and Audit Assist produces interim financial and management information for the accountant's clients.
- Accountant's Time and Billing System controls billing and provides management information for more timely and profitable business decisions.
- Accounts Receivable System controls cash and produces sales analysis and other management information.
- Accounts Payable, a voucher-based system, reduces A/P operational costs, eliminates duplicate payments, and plans for cash requirements.
- Payroll System maintains employee payroll information, performs payroll calculations, and produces payroll reports in a timely and accurate fashion.

Other ABACUS modules include Estate, Financial, and Tax Planning; Pension and Profit Sharing; Word Processing; and Graphics.

A version of this product is available for the VAX computer.

Price: \$5000 - \$100,000

Contact: Richard Bowe, Marketing Manager
(603) 898-7000

ASA INC.

3 Speen Street

Framingham, MA 01701

Abax Depreciation System

Operating System: CTS-300, RSTS, RT-11, TSX-PLUS

Keywords: • Cost accounting • Fixed assets • Inventory
• Maintenance

This comprehensive tool analyzes current fixed assets and determines the feasibility of adding assets. The system calculates at the point of data entry and provides a monthly depreciation report, year-to-date disposition and purchases reports, a projected-depreciation report, and an amortization schedule. All current depreciation methods are included.

A version of this product is available for the VAX computer.

Price: \$2000

Contact: Charles R. McKown, President
(316) 663-5041

ABAX COMPUTER SYSTEMS
P.O. Box 1097
Hutchinson, KS 67504

ABLE® Client Writeup System

Operating System: RSTS

Keywords: • Financial management • General ledger
• Payroll • Report writer

Distribution media: 9-track 800/1600 bpi magnetic tape, RK07, RL01, RL02.

This interactive reporting system enables accountants to create financial or management reports/analyses to gauge business performance. ABLE also permits entry of employee payroll information and automatically prepares quarterly returns and year-end W-2 forms.

ABLE's nonrestrictive account-numbering scheme gives each client its own chart of accounts. Thus, each entity of a multicorporate client could have its own account-numbering scheme. Data can be entered in random order, and provision is made for entering adjustments to prior accounting periods. Data entry under ABLE is carefully controlled by audit reports and edit lists, including the Transaction Edit List, the General Journal, the Payroll Journal, and the detailed General Ledger.

ABLE's powerful report writer and generator prepares the reports and analyses and enables the computer to automatically make and post such entries as standard adjusting entries, accrual entries, depreciation entries, depletion entries, and the like. Virtually any report or analysis that a qualified accountant might prepare is prepared automatically. The system prorates, calculates, allocates, and figures percentages (using any number of 100% figures) — all without "people" intervention.

A version of this product is available for the VAX computer.

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Price: \$11,500 – \$25,500

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.

1010 S. Weinbach Avenue, P.O. Box 2469

Evansville, IN 47714

ABLE® Receivables and Billing System

Operating System: RSTS

Keywords: • Accounts receivable • Billing
• Data base management • General ledger

Distribution media: 9-track 800/1600 bpi magnetic tape, RK07, RL01, RL02.

This menu-driven, operator-oriented system with interactive entry/edit is parameterized by "site standards" and provides:

- Registers for cash receipts and credit/discount
- Automated invoice preparation and invoice register
- Cash receipt distribution across corporate lines
- Aging reports, customer statements, and journal register
- Customer lists — alphabetical, numeric, long form, short form
- Collection and sales histories
- Automatic "standard bill" items, selective calculation and entering of late charges, and posting to general ledger
- On-line master file maintenance
- Mailing labels with multiple reprints
- Reruns without disk changes
- Optional check digit control
- Input sequence number control
- Unlimited chart of accounts
- Imprint headers for multiple users
- Report on average collection days
- Limited aging report for credit department
- Delete control over active accounts
- Easy clearing of spooled files after successful print
- "View or que"
- Input batch control
- Customer open items/or balance forward selectively
- Customer inquiry

A version of this product is available for the VAX computer.

Price: \$3500 – \$5000

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.

1010 S. Weinbach Avenue, P.O. Box 2469

Evansville, IN 47714

ABLEpayables**Operating System:** RSTS**Keywords:** • Accounts payable**Distribution media:** 9-track 800/1600 bpi magnetic tape, RK07, RL01, RL02.

This flexible on-line interactive accounts payable system can be used stand alone or interfaced with other systems. The system has user-controlled options and does not require a programmer for adaptation to a time-share environment. Those options include top- or bottom-stub checks, saving vendor/invoice history, general ledger interfacing, vendor check-digit numbering, preprinted (customized) check forms, and entry of purchase order numbers.

The cash-requirements report gives management control over check issuance and, therefore, cash flow. Checks may be printed selectively, based on the availability of funds. ABLEpayables supports partial payment, hold payment, manual checks, voided checks, and changes in due dates. Screen-formatted entry encourages user acceptance, decreases operator training time, and ensures data integrity.

A version of this product is available for the VAX computer.

Price: \$3500 - \$5000**Contact:** Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

ABLEpayroll — Interactive**Operating System:** RSTS**Keywords:** • Payroll • Taxes**Distribution media:** 9-track 800/1600 bpi magnetic tape, RK07, RL01, RL02.

This interactive system computes, prints, and reports multioffice and multistate payroll. Screen-formatted entry encourages user acceptance and data integrity. A full complement of reports to meet both management and government requirements is generated. Payroll in a new quarter cannot be run until the 941 information from the previous quarter has been printed and cleared. Various tests are performed to ensure that employees are reported on a state quarterly form. An employee with year-to-date earnings cannot be deleted. The user can control whether other earnings are taxable or nontaxable. If the earnings are taxable, the system will pay overtime based on a "computed" average hourly rate as prescribed by the Federal Wage and Hour Law. The system allows unlimited deductions. A menu

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selection is provided so the user can maintain FICA, U.C., and SDI rates; page and form size; and check kind without programmer assistance.

A version of this product is available for the VAX computer.

Price: \$3500 - \$5000

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

Accountant II Accounts Payable System

Operating System: RSX

Keywords: • Accounts payable • Cost accounting
• Financial analysis • Report writer

This easy-to-use and versatile system functions with the Accountant II General Ledger and Project/Job Cost systems. The Accounts Payable System lets you display all open invoices for a vendor or display all the disbursements made for the month by pressing a few buttons. The system automatically produces a cash-requirement report displaying the cash requirements for the current week and next four weeks. The system also prints checks, produces expense distribution reports for general ledger, posts expenses to projects, and provides reports for accounts payable expense distribution, check registers, cash requirements, aged trial balance, and checks.

A version of this product is available for the VAX computer.

Price: \$2000 - \$3000

Contact: Richard Northrup, Sales Director
(212) 221-2517

COMPUTRON BUSINESS SOLUTIONS, INC.
701 Seventh Avenue, Suite 9W
New York, NY 10036

Accountant II Accounts Receivable System

Operating System: RSX

Keywords: • Accounts receivable • Report writer • Retail
• Wholesale

This system can run stand alone or with the Accountant II Order Entry, General Ledger, and Project/Job Cost systems. The system's inquiry capabilities let you display all unpaid invoices for a customer by pressing a few buttons. Cash is applied directly to a customer's open invoices with a single keystroke. A cash application journal balances to the month's deposits. Statements can be run at any time during the month. Both midmonth and end-of-month statements can be produced and printed on request. Invoicing can be performed as a

by-product of the Order Entry System or directly by the Accounts Receivable System. In either case, invoices are posted to the Open A/R File. The system provides daily and monthly invoice registers, invoices, statements, aged trial balance, cash journals, and salesperson commission reports.

A version of this product is available for the VAX computer.

Price: \$2000 - \$3000

Contact: Richard Northrup, Sales Director
(212) 221-2517

COMPUTRON BUSINESS SOLUTIONS, INC.
701 Seventh Avenue, Suite 9W
New York, NY 10036

Accountant II General Ledger System

Operating System: RSX

Keywords: • Financial analysis • General ledger
• Report writer

This easy-to-use and versatile system functions with the Accountant II Accounts Payable and Accounts Receivable systems. The General Ledger System uses your chart of accounts; you do not need to modify your account numbers.

You can produce consolidated financial statements by pressing a button. You can even consolidate individual statements from companies with dissimilar charts of accounts.

You can alter the sequence and form of your financial statements without any programming changes. You can print both a detail statement and a summary statement automatically.

The system accepts entries automatically from the Accountant II Payables and Receivables systems. The entries can be entered into the general ledger on a detail or a journal entry basis.

The system provides journal listings, trial balance, general ledger, financial statements, and budget reports.

A version of this product is available for the VAX computer.

Price: \$2000 - \$3000

Contact: Richard Northrup, Sales Director
(212) 221-2517

COMPUTRON BUSINESS SOLUTIONS, INC.
701 Seventh Avenue, Suite 9W
New York, NY 10036

Accountant II Purchasing System

Operating System: RSX

Keywords: • Inventory • Purchasing • Report writer
• Retail

This purchasing system accepts order information, prints and tracks purchase orders, and updates the inventory when the orders are received. The receiving function is performed on line on an exception or a blind receiving basis.

A version of this product is available for the VAX computer.

Price: \$2000 - \$3000

Contact: Richard Northrup, Sales Director
(212) 221-2517

COMPUTRON BUSINESS SOLUTIONS, INC.

701 Seventh Avenue, Suite 9W

New York, NY 10036

Accountant's Time and Billing System

Operating System: CTS-300, RT-11

Keywords: • Billing • Financial planning • Scheduling

Distribution media: magnetic tape, RL02.

This package provides for all aspects of the time and billing function for a certified public accounting firm. The system allows for multi-matter and multifunction controls with numerous reporting functions. The system provides for retainer billing, fixed-fee billing, and time and expense billing on a variety of bases. The month-end reporting provides for expense and revenue along with productivity analysis for both responsible and reporting producers.

The system also permits the designation of any or all matters as time-budgeted items, permitting their tracking and analysis. Data base summary screens permit the rapid assessment of the financial position of the firm. Financial modeling screens permit the accountant to model the firm and thus set realistic goals in the planning for growth of the firm.

This software was designed, developed, and implemented by a certified public accounting firm for public accounting firms.

A version of this product is available for the VAX computer.

Price: \$3500 - \$4500

Contact: Lee Cates
(615) 523-0553

DORROUGH PARKS & CO.

119 Summit Hill Drive

Knoxville, TN 37902

Accounting Business Software

Operating System: CTS-300, RSX, RT-11

Keywords: • Accounts payable • Accounts receivable • Billing
• Order entry

ABS packages perform specific business functions and merge, sort, and rearrange information. Data that is keyed into the computer is used to update several files and reports simultaneously. For example, a sales order entry checks both customer and inventory records. The resulting invoice automatically reduces the inventory file, creates an accounts receivable record, and posts the transaction for general ledger.

In addition, ABS software features security, audit trails, multiple-user access, multiple-branch capability, a menu of functions for each program, and instruction and reference guides.

A version of this product is available for the VAX computer.

Price: \$5000 - \$9500

Contact: Thomas L. Mitchell, President
(312) 381-2004

ABS ASSOCIATES, INC.
22 Witt Road
Barrington, IL 60010

Accounting, Integrated

Operating System: ULTRIX-11, UNIX* (System III, System V)

Keywords: • Cost accounting • Manufacturing
• Property management • Real estate

This fully integrated on-line multiuser UNIX*-based accounting system includes A/P, Billing-A/R, G/L, Inventory Control, Job Costing, Order Processing, Purchase Order Accounting, Sales Analysis, Cost Estimating, and Payroll. The features of each module are listed under individual headings.

True multiuser design allows concurrent use of any program. Plus, multicompany/multidivision support is built into all programs, so that the user may be assigned to a predefined company/division or allowed the option to specify company/division.

All information is kept up to date. Timely information is ensured through automatic G/L update from all modules. All management reports may be run at any time for any fiscal period (past or current). Processing of new month's information may proceed while the prior month is being "closed." A print key provides a hard copy of any screen image through the system printer.

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Printed transaction logs provide a complete audit trail of every transaction. Transaction logs include error codes highlighting invalid data fields. Programs contain extensive checks for error conditions and record them in an error log file. Supplemental security at menu level limits access to unauthorized programs.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Laurel McDaniel
(312) 332-3242

NEAL NELSON & ASSOCIATES

185 N. Wabash, Suite 1908

Chicago, IL 60601

Accounting Package

Operating System: RSTS

Keywords: • Accounts payable • Accounts receivable
• General ledger • Order entry

This accounting system, developed by Compu-Share, provides general ledger, accounts payable, accounts receivable, order entry, payroll, job costing, and inventory control. The user-friendly menu-driven and table-driven modules, with versatile tailoring capabilities, provide simultaneous update capabilities and generate reports up to 132 characters wide on terminals or printers. The modules are interactive and have password protection and a wildcard reporting function, and the restart feature preserves data in a posting session in the event of a system crash. The user can design printouts to fit preprinted forms. Installation, including tailoring and system manager training, can be completed in a day.

With the General Ledger module, posting can be done without requiring month-end or year-end closing. Order Entry defines each product by code, description, and department, and customers can be validated by either number or name. Accounts Receivable allows both open-item and balance-forward accounting, on a customer-by-customer basis. With Accounts Payable, the user can pay invoices individually or by group. Payroll provides a variety of reports, including rate review, sick leave, terminated employee, rate change, vacation accrual, general ledger distribution, and quarterly reports. Job Costing is designed for general contractors and subcontractors or other builders of projects. Inventory Control offers a choice of FIFO, LIFO, or weighted-average cost as a basis for computation.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Hilda Daniel

(408) 257-7700

NATIONAL INFORMATION SYSTEMS

20370 Town Center Lane, Suite 130

Cupertino, CA 95014

Accounts Payable

Operating System: RSTS

Keywords: • Accounts payable • Financial analysis
• General ledger

The ADD Accounts Payable system provides a flexible vendor file that allows for variable discount/payment terms, multicompany internal distributions for general ledger reports, and a history of vendor activity detailing purchases and payments on an open-item basis. Vouchered checks are produced and discounts computed automatically. The system includes forecasts of future cash requirements, payables trial balance, aging of open invoices, bank reconciliation, disbursement reports, and general ledger distribution by account and automatically interfaces with ADD's General Ledger system.

The system can record additional invoice information, such as units purchased, retail invoice value, and a free field text entry to record comments about a given invoice.

A version of this product is available for the VAX computer.

Price: \$2500 - \$5000

Contact: Bruce A. Bott, President

(201) 584-4026

ADVANCED DIGITAL DATA, INC.

354 Route 206

Flanders, NJ 07836

Accounts Payable

Operating System: RSTS

Keywords: • Accounts payable • Audit

This package provides complete accounts payable processing, including general ledger distribution reporting and interface. Data is entered in on-line conversational mode, with operator prompting. Accounts Payable provides complete audit trails, selective check writing, and an open payables list, showing all outstanding payables, check reconciliation, aged reporting of payables, cash requirements reporting, and multiple expense months for invoices.

A version of this product is available for the VAX computer.

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Price: \$2000 - \$9800

Contact: Marketing Department
(502) 491-9820 or 1 (800) 626-6268

AMCOR COMPUTER CORP.

1900 Plantside Drive
Louisville, KY 40299

Accounts Payable

Operating System: IAS, RSTS, RSX, RT-11

Keywords: • Accounts payable • Cost accounting
• Purchasing

This menu-driven system, which includes a job costing feature, provides printing of cash disbursements by vendor, with default capability at voucher entry time; check verification reports before printing; check printing with stub detail; a check register showing computer, handwritten, or voided checks; automatic voucher number assignments; batch control totals; and autposting to A/P open file and distribution file. This system prints accounts payable, aged trial balance, GL/job, and job distribution reports. Accounts Payable interacts with other Armadale business packages programmed in Pascal II.

A version of this product is available for the VAX computer.

Price: \$1500 - \$3000

Contact: Michael G. Sifton
(416) 477-8000

ARMADALE SYSTEMS INC.

Toronto Buttonville Airport
Markham, Ontario L3P 3J9
Canada

Accounts Payable

Operating System: TSX-PLUS

Keywords: • Accounts payable

This accounts payable package provides complete vendor name and address, including month-to-date and year-to-date purchases controlling the number of vouchers. Vouchers are entered to the payables system. A payment date is set up, and vouchers due are reported on a cash-requirements report. Items can be deferred with the remaining items to be paid. The system prints vendor checks with detailed stubs by voucher and invoice number.

Price: \$2000

Contact: Sam Wingate, Vice President
(813) 935-8844 or 935-8951

AUTOMATION RESOURCES CORP.

2901 W. Busch Boulevard, Suite 309
Tampa, FL 33618

Accounts Payable

Operating System: RSTS

Keywords: • Accounts payable • Billing

This application provides the capability to record and list all payables incurred by the firm for all invoices from vendors and interfaces to CRS's Management Program 1000 and 2000 software applications, as well as to General Ledger.

A version of this product is available for the VAX computer.

Price: \$3500 – \$6000

Contact: Suzanne Gunnells

(215) 825-7500

COMPUTE-R-SYSTEMS, INC.

5165 Campus Drive

Plymouth Meeting, PA 19462

Accounts Payable

Operating System: RSTS

Keywords: • Accounts payable • Audit • Cost accounting
• Project management

Accounts Payable (AP) is a flexible package that provides information on your payable liabilities and cash disbursements and gives you control of your dollars spent. AP lets you maintain open payables, choose which items to pay or not to pay, shows you where your disbursement dollars are needed first, prints checks, and easily handles entry of handwritten checks. The module also provides an audit trail through deferred reports. You can pull batch listings back to the terminal screen, send them to be printed, and save for later review, or you can do all three operations. Check reconciliation speeds up the process of verifying your bank statements.

Price: \$5000 – \$20,000

Contact: Chuck Sargent, Software Sales Representative

(714) 970-1515

DATA PROCESSING DESIGN, INC.

1400 North Brasher

Anaheim, CA 92807

Accounts Payable

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts payable • Financial management

This system contains the vendor master, the invoice file, the recurring file, and the holdback file. The vendor master stores supplier information such as a supplier number, name and address, and year-to-date balances. The invoice file, recurring file, and holdback file retain individual invoice and payment transactions consisting of a

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vendor number, amount, and so on. The vendor file and the invoice files (invoice, recurring, and holdback) integrate to produce vendor reports and inquiries. At month end, after vendor reports are printed, paid invoice transactions are moved to the history file, leaving only unpaid invoices.

Invoice features include multicompany A/P support and the ability to enter manually paid invoices to the A/P system. Thus, each vendor may be assigned default terms that may be overridden during invoice recording. Invoices that occur regularly may be set up and released for payment when required. However, a percentage of the invoice may be held back and released when required. A flexible check-writing routine allows invoices due to be paid using selected criteria. The system allows reconciliation of cashed checks and provides an outstanding check list. Aging is based on invoice dates.

The A/P interfaces to the General Ledger. The user may set up a table of G/L account numbers for each company. Statistical data may be recorded during the distribution of the invoice and passed on to the G/L.

All reports allow various selection options and printing ranges. Reports can be printed, spooled to disk, or viewed on screens. Reporting features on-line inquiries, history files, a cash-requirements report, and summary and detail aging reports.

A version of this product is available for the VAX computer.

Price: \$2000 – \$15,000

Contact: Tom Muskiluke
(519) 893-4200

DIGITAL BUSINESS COMPUTERS
133 Manitou Drive
Kitchener, Ontario N2C 1L4
Canada

Accounts Payable

Operating System: CTS-300, RSX, RT-11

Keywords: • Accounts payable • Report writer

This system prepares invoices for payment, prints checks, and provides up-to-date information on cash requirements. The system is flexible enough to handle almost any type of invoice payment — partial, complete, even prepaid. The Accounts Payable system permits control of each flow, based on the client's unique requirements.

Some significant features and reports are:

- Vendor listing, alphabetically or numerically, and vendor analysis
- Expense account cross-reference
- Cash requirements, aged analysis, and pre-check-writing reports
- Payment deferral

- Automatic check writing
- Optional interface to the bank reconciliation program and to the job cost module for updating costs charged to specific job cost breakdowns
- Complete handling of subcontract retainage, with flexibility in both calculating and paying the retained amounts

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Bob Sprowls

(904) 434-2685

DIGITAL SYSTEMS, A DIV. OF UCCEL

114 East Gregory Street

Pensacola, FL 32501

Accounts Payable

Operating System: CTS-300

Keywords: • Accounts payable • Billing

This comprehensive free-standing module of programs provides for the control and payment of vendor invoices on an accrual basis. Liability and discounts are automatically monitored while providing vendor historical data. An optional interface is also provided for automatic posting to the companion General Ledger system.

The system features single-source direct entry through CRTs, tutorial prompting for simplified operation, multiple GL distribution at the time of vouchering, automatic control of discount due dates, preediting of amounts to be automatically paid, automatic preparation of checks and vouchers, check reconciliation, direct master file inquiry, and on-demand report printing.

At the time of vouchering, distribution may be automatic or made to up to nine GL accounts. The GL numbers are interactively verified, and the account description is displayed on the CRT. The full invoice amount distribution is also verified.

Invoice processing is accomplished by interactive CRT entry of a 4-digit vendor number (with automatic verification and display of vendor name), invoice number and date (one invoice to a voucher), invoice amount, discount amount (if applicable), due date, and then up to nine GL account distributions. The system verifies the total distribution balances to the invoice amount. For prepaids, the check number and date are also entered. A voucher number is automatically assigned to each invoice entered.

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Payment of open items may be by either deferral or selection method. In the deferral method, all items prior to the specified due date, except those specifically deferred, are paid. Deferral may be for an entire vendor or for selected vouchers in a vendor. In the selection method, only those items specifically selected are paid. Partial payments may be made in either method.

Price: \$1500 - \$2000

Contact: Robert J. Steinis
(203) 378-6010

FOOD DISTRIBUTOR SYSTEMS, INC.
959 Main Street
Stratford, CT 06497

Accounts Payable

Operating System: RSTS

Keywords: • Accounts payable

Memory required: 256KB and 20MB of disk storage. Distribution medium: 9-track 800/1600 bpi magnetic tape.

This system processes and provides reports for complete expense and cost control and for cash disbursement management. The system handles voucher input, vendor analysis, multidivision capability, cash requirements, selective payments, overlapping period processing, interface with the general ledger, and automatic allocations. An on-line history for each vendor is available. Reports include cash requirements, aging, open invoice, transaction register, and check register.

Our software warranty provides users with comprehensive support and training. Each turnkey system includes up to four hours of field training for each package, at no charge, during the first 30 days following installation. One user manual is provided with each software package. Additional copies are available.

The software, written in BASIC-PLUS, runs under RSTS/E on DIGITAL PDP-11 and compatible minicomputers. End-user, OEM, and software reseller licensing agreements are available.

Price: \$1495

Contact: Warren C. Nagler
(714) 997-8927

JADTEC, INC.
546 West Katella Avenue
Orange, CA 92667

Accounts Payable

Operating System: ULTRIX-11, UNIX* (System III, System V)

Keywords: • Accounts payable

This fully integrated, on-line, multiuser UNIX*-based accounts payable system supports full and partial payments, debit and credit memos, adjustments, allowances and refunds, and manual and separate checks. A prepay edit list allows final review before checks are written. The system maintains all information to print 1099 forms for vendors and uses a flexible "open-item" A/P design. Separate categories of A/P, allowing analysis of total payables by type (G/L account number), are maintained. Voided or unused check numbers may be entered to assist in accounting for all checks on the check register.

Also available are a check-reconciliation system, a print key providing hard copy of any screen image through the system printer, true multiuser design for concurrent program use, timely information by automatic G/L update, built-in multicompany/multidivision support, and user-assigned predefined company/division or user-allowed option to specify company/division.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Laurel McDaniel

(312) 332-3242

NEAL NELSON & ASSOCIATES

185 N. Wabash, Suite 1908

Chicago, IL 60601

Accounts Payable

Operating System: RSTS

Keywords: • Accounts payable • Data dictionary

This system provides all the forms, programs, and procedures necessary to perform the accounts payable function. Menu orientation makes this system easy to learn and simple to use. With the system's effective error reporting and interactive editing of input information, most errors can be identified and corrected before reaching the main system.

Reviewed annually by outside accountants, this system has a complete, easy-to-follow audit trail and is continually kept up to date. Comprehensive reporting includes payables agings, cash requirements forecasts, detail and summary check registers, payables trial balances, ledger payables expense distribution reports, and several reports showing paid and/or unpaid invoice information.

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The system may be run stand alone or may be interfaced with a companion general ledger system. The documentation includes detailed operating procedures, flow diagrams, file layouts, report samples, program operating instructions, and a dictionary of data and terms used in the system. Complete support and training are available.

A version of this product is available for the VAX computer.

Price: \$2500 - \$7500

Contact: Sharen Robinson, Sales Assistant

(219) 935-5121

PLYCOM SERVICES, INC.

P.O. Box 160

Plymouth, IN 46563

Accounts Payable

Operating System: RSTS

Keywords: • Accounts payable • Office systems
• Report writer

Accounts Payable operates as a voucher system to accumulate information on vendor invoices and other payable obligations. Voucher entries generate unique voucher numbers for audit and control purposes.

The system provides payment selection key due date and individual invoices on vendors; allowance for partial payments; handling of prepayments for checks already paid as well as checks scheduled to be paid; unlimited general ledger expense and job costing distribution for each voucher; inquiry into month-to-date or year-to-date purchases, payments, and current balance; creation of accounts payable and cash disbursement journal entries; and access to any journal of any month for current fiscal or prior year.

The reporting features are vendor listing; mailing labels; voucher distribution; voucher history; precheck pay register; check writing register; check printing; journal listing for accounts payable, cash disbursement, and job costing; age analysis; and an open-invoice report.

Accounts Payable allows multiple users and provides password security.

A version of this product is available for the VAX computer.

Price: \$3000 - \$6000

Contact: Linda Wingfield, Software Product Manager

(919) 766-0571

RESOURCE SYSTEMS CORP.

P.O. Box 1546

Clemmons, NC 27012

Accounts Payable (Canadian)

Operating System: RSTS, RSX

Keywords: • Accounts payable • Data dictionary
• Query facilities

This system, designed to work with the Computer Management System, is table driven, with all files processed by data dictionaries. The system can be adapted to cover a wide range of requirements and to meet the needs of any Canadian organization. The system may also be used as is.

Accounts Payable maintains the supplier master in numeric and alphabetic sequence for inquiries. Image records of checks and invoices are kept on line and are cross-referenced, so that inquiries are allowed by check date or number and invoice date or number. The system allows invoices to be recalled for payment each month.

Accounts Payable will automatically purge data by date as required — annually or semiannually. The automatic transfer of accounting data to other systems — for example, G/L — must be added to the system to meet the requirements of each user.

A version of this product is available for the VAX computer.

Price: \$2500

Contact: Bill Hay

(204) 888-5253 or 832-3680

BILL HAY & CO.

1164 Crestview Park Drive

Winnipeg, Manitoba R2Y 0W6

Canada

Accounts Payables

Operating System: RSTS

Keywords: • Accounts payable

This program offers a complete accounts payable system.

A version of this product is available for the VAX computer.

Price: \$3500

Contact: Andrew Yasenach

(201) 231-9400

UNITRONIX DATA SYSTEMS, INC.

50 County Line Road

Somerville, NJ 08876

Accounts Receivable

Operating System: RSTS

Keywords: • Accounts receivable • Audit

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This on-line interactive system with conversational operator prompting provides complete audit trails; detail or summary trial balances for selective aging periods; statements for one, all, or selected ranges of customers; and on-line inquiry to customer and company information. Accounts Receivable can be used in a stand-alone environment or can interface automatically with the standard order processing system.

A version of this product is available for the VAX computer.

Price: \$2000 - \$9800

Contact: Marketing Department
(502) 491-9820 or 1 (800) 626-6268

AMCOR COMPUTER CORP.

1900 Plantside Drive

Louisville, KY 40299

Accounts Receivable

Operating System: IAS, RSTS, RSX, RT-11

Keywords: • Accounts receivable • Billing • Point of sale

This menu-driven system, which includes a Billing module, provides on-line posting of invoices and receipts, open-item and balance-forward accounting, and flexible maintenance of data files, such as all relevant customer information, collect/prepaid, terms codes, ship codes, discount percentage, and month-to-date and year-to-date sales and cost of goods. The customer aging report is printed in detail or summarized by customer or salesperson. Batch totals and statement flags are displayed to control transaction flow. Accounts Receivable interacts with other Armadale business packages programmed in Pascal II.

A version of this product is available for the VAX computer.

Price: \$1500 - \$3000

Contact: Michael G. Sifton
(416) 477-8000

ARMADALE SYSTEMS INC.

Toronto Buttonville Airport

Markham, Ontario L3P 3J9

Canada

Accounts Receivable

Operating System: TSX-PLUS

Keywords: • Accounts receivable

This complete accounts receivable system provides customer name, address, and phone number and keeps track of month-to-date and year-to-date sales and controls on credit limit. Invoices are entered with cash and credit memoranda to cause printing on demand of an aged trial balance and customer statements. Finance charges can be used on a selected basis.

Price: \$2000

Contact: Sam Wingate, Vice President
(813) 935-8844 or 935-8951

AUTOMATION RESOURCES CORP.
2901 W. Busch Boulevard, Suite 309
Tampa, FL 33618

Accounts Receivable

Operating System: RSTS

Keywords: • Accounts receivable • Billing • Cost accounting
• Query facilities

Accounts Receivable software processes receivables from invoice entry through cash receipts and features on-line inquiry of customer accounts. Invoices can be entered manually or billed automatically (through the Project Cost/Autobilling module) and can be posted directly to the accounts receivable ledger. Adjustments to invoices are handled quickly and efficiently. The module balances each payment received to ensure proper crediting against accounts. You may allow automatic and manual discounts at cash application time, plus automatic determination of due dates. Agings are produced in user-selected formats, including current, 30, 60, 90, 120, or more than 120 days, providing an overview of anticipated cash-flow positions. Customer statements are easily generated, either directly on preprinted forms or with WORD-11, DPD's optional word processing software. Inquiry letters regarding outstanding receivables are also generated, allowing the system to use your current customer information.

Price: \$5000 - \$20,000

Contact: Chuck Sargent, Software Sales Representative
(714) 970-1515

DATA PROCESSING DESIGN, INC.
1400 North Brasher
Anaheim, CA 92807

Accounts Receivable

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts receivable • Billing • Credit
• Financial management

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This system is based on the customer master file and the open-item file. The customer master file stores such information as customer number, name and address, aging balances, and control flags. The open-item file retains individual invoice and payment transactions consisting of a customer number, invoice number, reference number, amount, and so on. The two files combine to produce customer statements, inquiries, and a variety of reports and may be used individually to produce reports such as the name and address report or the open-item file listing. The customer number is the primary index to access both files. At month end, after customer statements are printed, paid invoice transactions are purged from the open-item file, leaving only unpaid invoices.

Features include two utility programs that allow the operator to set a table of terms and a table of G/L account numbers for your company. An interest calculation allows variable rates of interest to be calculated on the aged amounts. Aging is calculated on invoice due dates that consider the terms offered. A utilities menu allows the user to reorganize A/R files, recover from power failures, and customize tables for currency types and terms and audit trail serial numbers. A variety of currencies are allowed. A currency table allows conversion to standard currency. The software handles multiple accounts receivable and interfaces to the General Ledger.

Printing features include a name and address printing program and a label printing program. Statements may be printed at variable statement cycles. All reports, including the interest report, allow various selection options and printing ranges. Reports can be directed to several printers, spooled to disk, or viewed on screens.

A version of this product is available for the VAX computer.

Price: \$2000 - \$15,000

Contact: Tom Muskiluke
(519) 893-4200

DIGITAL BUSINESS COMPUTERS
133 Manitou Drive
Kitchener, Ontario N2C 1L4
Canada

Accounts Receivable

Operating System: CTS-300, RSX, RT-11

Keywords: • Accounts receivable • Audit • Billing
• Report writer

This sophisticated yet simple-to-operate method accomplishes all the general accounting functions associated with accounts receivable. Data entered once into the system updates or prepares every record, document, and management report affected, leaving a clear audit trail.

Some significant features and reports are:

- Capability of handling balance-forward and open-item records for the same client
- Automatic posting of fixed charges — up to 999 user-defined charge types — including service charges
- Automatic age analysis, statement preparation in several formats, and commission calculations
- Three invoice formats
- User-defined terms and shipping instructions
- Optional interface to the job cost module, which will update amounts billed and received by job
- Complete flexibility in calculating and paying job retainage amounts

The system provides sales reports by customer, customer type, city, county, or state and by division or tax code. Trial balance and sales history reports are included.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Bob Sprowls

(904) 434-2685

DIGITAL SYSTEMS, A DIV. OF UCCEL

114 East Gregory Street

Pensacola, FL 32501

Accounts Receivable

Operating System: ULTRIX-11, UNIX* (System III, System V)

Keywords: • Accounts receivable

This fully integrated on-line multiuser UNIX*-based accounts receivable system uses a flexible open-item design and prepares invoices, debit and credit memos, detail and summary aged trial balances, and daily and monthly journals and registers. The programs support full and partial payments, adjustments, and refunds and allow cash and early payment discounts. Separate categories of A/R can be automatically maintained, allowing analysis of total receivables by G/L account number. Either detail or summary A/R ATB may be printed at any time for one or more customers.

Also available are automatic calculation of monthly finance charges, maintenance of standard charges for automatic billing events, a print key providing hard copy of any screen image through the system printer, true multiuser design for concurrent program use, timely information by automatic G/L update, built-in multicompany/multidivision support, and user-assigned predefined company/division or user-allowed option to specify company/division.

* UNIX is a trademark of AT&T Bell Laboratories.

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A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Laurel McDaniel
(312) 332-3242

NEAL NELSON & ASSOCIATES
185 N. Wabash, Suite 1908
Chicago, IL 60601

Accounts Receivable

Operating System: RSTS

Keywords: • Accounts receivable • Data dictionary

This system provides all the forms, programs, and procedures necessary to perform the accounts receivable function. Menu orientation makes this system easy to learn and simple to use. With the system's effective error reporting and interactive editing of input information, most errors never reach the main system.

Reviewed annually by outside accountants, this system has a complete, easy-to-follow audit trail and is continually kept up to date. Comprehensive reporting includes several receivables agings, cash receipts forecasts, receivables trial balances, sales and receipts journals, and ledger distribution reports.

The system may be run stand alone or may be interfaced with a companion general ledger system. The documentation includes detailed operating procedures, flow diagrams, file layouts, report samples, program operating instructions, and a dictionary of data and terms used in the system. Complete support and training are available.

A version of this product is available for the VAX computer.

Price: \$2500 - \$7500

Contact: Sharen Robinson, Sales Assistant
(219) 935-5121

PLYCOM SERVICES, INC.
P.O. Box 160
Plymouth, IN 46563

Accounts Receivable

Operating System: RSTS

Keywords: • Accounts receivable

This package, programmed in VAX BASIC combined with limited use of file-driven procedures, replaces manual accounts receivable systems or updates existing automated systems. The package controls the entry of sales transactions and cash received to apply against those transactions. Every transaction is related to a specific customer account and is applied to the outstanding customer balance.

All data entered is validated before being accepted by the system. The complete audit trail traces all activity to its source and determines your company's income. Salesperson activity and commission history is maintained by customer(s) and can be extended to the product level.

All system codes, reference numbers, valid print devices, file specifications, on/off switches, and default information are user accessible and easily maintained. Multiple branches and companies (with or without separate data files) are handled by the Accounts Receivable system, and user-maintainable menu and security systems are included, with security at both the program and option levels.

This package interfaces with the RSC Inventory, General Ledger, Purchase Order, Order Entry, and/or Job Costing modules.

A version of this product is available for the VAX computer.

Price: \$3000 - \$6000

Contact: Linda Wingfield
(919) 766-0571

RESOURCE SYSTEMS CORP.

4000 Clemmons Avenue, P.O. Box 1546
Clemmons, NC 27012

Accounts Receivable/Billing

Operating System: RSTS

Keywords: • Accounts receivable • Billing • Sales analysis

Memory required: 256KB and 20MB of disk storage. Distribution medium: 9-track 800/1600 bpi magnetic tape.

The program facilitates timely collections and better cash flow through statement preparation, automatic aging at any time, and preparation of selected collection letters. The system handles cash receipts posting and features automatic posting to the general ledger and the examination of an individual customer's current accounts or account history at any time. Reports include aged receivables by customer and by salesperson, open-item statements for one customer, a selected group of customers, or for all customers; cash receipts by day for the month or by customer for the month; and customer master files.

The sales invoicing is a bridge between order entry and accounts receivable. The programs feature credit status checking, automatic numbering of invoices, and automatic posting of the accounts receivable. Reports include sales by product, sales by customer, sales by account executive, and earned commissions. The system allows partial billing, credit memos, and multiple prices for each product.

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Our software warranty provides users with comprehensive support and training. Each turnkey system includes up to four hours of field training for each package, at no charge, during the first 30 days following installation. A user manual is provided with each software package.

The software, written in BASIC-PLUS, runs under RSTS/E on DIGITAL PDP-11 and compatible minicomputers. End-user, OEM, and software reseller licensing agreements are available.

Price: \$1495

Contact: Warren C. Nagler
(714) 997-8927

JADTEC, INC.
546 West Katella Avenue
Orange, CA 92667

Accounts Receivables

Operating System: RSTS

Keywords: • Accounts receivable

This program offers a complete accounts receivable system.

A version of this product is available for the VAX computer.

Price: \$3500

Contact: Andrew Yasenchak
(201) 231-9400

UNITRONIX DATA SYSTEMS, INC.

50 County Line Road
Somerville, NJ 08876

ACCPAY-IMPRS Accounts Payable A/P System

Operating System: RSTS, RSX, RT-11

Keywords: • Accounts payable • General ledger
• Query facilities

This total accounts payable system with complete interface to the general ledger includes data verification and information checks on entry, update routines with audit trail, automatic payment of monthly vouchers, register or invoices on the system, checks produced on a due-date basis as well as on a vendor-number basis, complete audit trails, handling of credit memos and vouchers, automatic entry of "repeat" data during entering routine, and automatic file backup before updates for recovery.

A version of this product is available for the VAX computer.

Price: \$3500

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544

RUF CORP.
1533 E. Spruce
Olathe, KS 66061

ACCREC-IMPRS Accounts Receivable A/R System

Operating System: RSTS, RSX, RT-11

Keywords: • Accounts receivable • Financial analysis
• Query facilities • Report writer

This total accounts receivable system with complete A/R management reporting uses an open-item concept. This system records all billable and nonbillable entries and up to four types of cash entries; allows for standard/optional \$\$ rates, optional service charge calculations by client, personalized client A/R statement messages, easy interactive reporting of all files, balance-forward and open-item account handling, and instant access to client records; provides complete on-line inquiring/processing; and performs extensive on-line editing and balancing.

A version of this product is available for the VAX computer.

Price: \$1500

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544

RUF CORP.
1533 E. Spruce
Olathe, KS 66061

ACUITY Accounts Payable

Operating System: UNIX* (System III, System V, Version 7)

Keywords: • Accounts payable • Cost accounting
• Financial management

This accrual system allows complete control over disbursements and provides expense analysis reports on demand. The Accounts Payable system interfaces directly with the Purchase Order and Receiving system and with the Project Management system, if desired. Cash requirement reports and flexibility in choosing which vendors, which invoices, or partial payments are to be paid means complete control over your organization's cash flow. An optional check-reconciliation feature allows interactive bank reconciliation.

Additional features allow the system to use recurring standard AP, handle costs to project and task level, indicate whether an expense is billable to a project sponsor, handle cash and accrual accounting for tax purposes, use optional AP historical detail, use full batch control

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for each batch posted to GL, use separate accounting periods and external transaction dates, and summarize billable versus nonbillable other direct costs to a project.

Designed for companies ranging from 5 to 2000 employees, ACUITY Financial Software offers sophisticated audit trails, security by application and by user, local printer support, and TTY handler for Packet Switched Networks (such as TELENET). Computer Cognition supports end users with a 1-year warranty, with maintenance available thereafter. Installation, training, and customization are available.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$1500 - \$9500

Contact: Sherrell Harper

(619) 474-2010

COMPUTER COGNITION

225 W. 30th Street

National City, CA 92050

ACUITY Accounts Receivable

Operating System: UNIX* (System III, System V, Version 7)

Keywords: • Accounts receivable • Financial analysis
• Sales analysis

ACUITY Accounts Receivable handles both balance-forward and open-item customers. The user can define up to four aging periods for the AR aging report and statements to customers. Finance charges to past-due invoices can be added on request. Sales analysis is by customer type, by salesperson, by state, by project, and if used with the ACUITY Project Management system, by salesperson branch and by sales volume. The sales analysis includes cost-of-sales figures and gross profit. The system handles \$1,000,000+ receipts and produces a sales tax report.

Sales commissions are also maintained by the system. Additional features include credit checking, optional AR history for sales journal, cash and accrual accounting, an audit trail for all cash and sales transactions, multiple sales tax per transaction, user-specifiable batch controls for each batch posted to the General Ledger, track amount of last payment, track date of last payment, and track unposted balance of new sales transactions.

Designed for companies ranging from 5 to 2000 employees, ACUITY Financial Software offers sophisticated audit trails, security by application and by user, local printer support, and TTY handler for Packet Switched Networks (such as TELENET). Computer Cognition supports end users with a 1-year warranty, with maintenance available thereafter. Installation, training, and customization are available.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$1500 - \$9500

Contact: Sherrell Harper

(619) 474-2010

COMPUTER COGNITION

225 W. 30th Street

National City, CA 92050

ACUITY Fixed Assets

Operating System: UNIX* (System III, System V, Version 7)

Keywords: • Financial planning • Fixed assets • Forecasting
• Taxes

The ACUITY Fixed Assets system handles the basic accounting functions for asset acquisition, asset retirement, and the periodic calculation of fixed-assets depreciation for all businesses. The new Accelerated Cost Recovery System (ACRS) for depreciation of fixed assets has been fully integrated and includes the new depreciation schedules, expensing regulations, and provisions for investment tax credit and recapture. In addition, all other standard depreciation methods are implemented for assets placed in service before 1981. The user can simultaneously record and track one set of depreciation figures for tax purposes and another for financial statement purposes.

Additional features allow the user to interactively enter asset acquisitions, changes, and retirements; print corresponding registers; use nine depreciation methods, including the unit-of-production method; maintain a complete audit trail with change history report; track investment tax credit; and print a projected depreciation summary showing depreciation of any asset by all possible methods for any life.

Designed for companies ranging from 5 to 2000 employees, ACUITY Financial Software offers sophisticated audit trails, security by application and by user, local printer support, and TTY handler for Packet Switched Networks (such as TELENET). Computer Cognition supports end users with a 1-year warranty, with maintenance available thereafter. Installation, training, and customization are available.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$1500 - \$9500

Contact: Sherrell Harper

(619) 474-2010

COMPUTER COGNITION

225 W. 30th Street

National City, CA 92050

ACUITY Payroll

Operating System: UNIX* (System III, System V, Version 7)

Keywords: • General ledger • Payroll • Personnel • Taxes

This flexible and sophisticated system handles both salaried and hourly payrolls, as well as regular, overtime, special hours, holiday, vacation, sick, and comp time. Features include flexible vacation and sick time earned and taken, with user-defined GL distributions; multiple state tax tables; and up to nine deductions/earnings in addition to credit union, savings bond, garnish deduction, and union dues deductions. The system handles multiple pension plans, including the newly enacted 401K plan. The system produces payroll checks, quarterly reports, and W-2 forms and maintains payroll history, which shows earnings, taxes, and deductions of each check within a specified time range. Check reconciliation can be performed interactively, if desired.

Additional features include available GL distributions for inspection prior to posting, separate hour and dollar accounting for sick time and vacation earned, a separate accounting period and external transaction date, GL batch controls for all batches posted to GL, and year/in/out totals on payroll register.

Designed for companies ranging from 5 to 2000 employees, ACUITY Financial Software offers sophisticated audit trails, security by application and by user, local printer support, and TTY handler for Packet Switched Networks (such as TELENET). Computer Cognition supports end users with a 1-year warranty, with maintenance available thereafter. Installation, training, and customization are available.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$1500 - \$9500

Contact: Sherrell Harper
(619) 474-2010

COMPUTER COGNITION
225 W. 30th Street
National City, CA 92050

A/D (Fixed Assets and Depreciation), MCBA, Inc.

Operating System: CTS-300, RSTS, RT-11

Keywords: • Cost accounting • Financial planning

This package handles asset acquisition, asset retirement, and the periodic calculation of depreciation. The new Accelerated Cost Recovery System (ACRS) for depreciation of fixed assets has been fully integrated into the package and includes the new depreciation schedules, the new expensing regulations, and the new provisions for

investment tax credit and recapture. In addition to handling the new ACRS depreciation methods, all other standard depreciation methods are implemented for assets put in service before 1981.

The user can simultaneously record and track two sets of depreciation figures: one for tax purposes and one for financial statement purposes. The user can obtain, on request, numerous reports that provide a breakdown of assets from many points of view, with lesser or greater detail.

The package can also print an amortization schedule for any loan, given the principal amount, interest rate, and term in years. The equal monthly or yearly payment is automatically calculated, and cumulative figures for interest paid and principal paid are shown, period by period, as well as the remaining principal in each period.

The program also provides maximum tax benefits from depreciating assets; allows maintenance to the asset and general ledger code files; handles up to 13 accounting periods a year; allows entry and editing of asset acquisitions, changes, and retirements; permits nine methods of depreciation and handles bonus depreciation and expensed amounts; tracks and maintains investment tax credit and provides for automatic recapture on retirement; projects depreciation amounts and the life of any asset, for all depreciation methods; may be automatically interfaced to MCBA's general ledger package; and separates assets from a previously grouped asset.

The package can also print the asset file printout; asset acquisition, fixed asset, and asset retirements registers; first-year expensed amounts, general ledger depreciation, investment tax credit, depreciation method change, asset change history, and A/D distribution to G/L reports; asset depreciation expense journal; projected depreciation summary; and amortization schedules.

A version of this product is available for the VAX computer.

Price: \$2000 - \$3000

Contact: Sales Representative
(818) 957-2900

MCBA, INC.
2441 Honolulu Avenue
Montrose, CA 91020

Administrator 4/11

Operating System: RSTS, RSX

Keywords: • Accounts payable • Accounts receivable
• General ledger • Payroll

Administrator 4/11 is an integrated accounting and stock control system, suitable for any business. The system, also available in modular form, includes accounts receivable, accounts payable, general ledger, payroll, order processing, and stock control packages.

A version of this product is available for the VAX computer.

Price: \$800 - \$14,000

Contact: H. B. H. Reporter, Managing Director
021-355 3511 or Telex: 335797 FOURTH G
FOURTH DIMENSION PRODUCTS LTD.
Fourth Dimension Building, 10 King Edward Square
Sutton Coldfield, West Midlands B73 6AP
United Kingdom

AIM/AP (Accounting Information Manager for Accounts Payable)

Operating System: BOS/5, MBOS/5

Keywords: • Accounts payable

Memory required: 64K. Distribution media: 5¼" or 8" diskettes.

AIM/AP offers complete processing and reporting for accounts payable records. Flexible and easy to use, AIM/AP is patterned after manual accounts payable systems. This multiuser system prohibits payment in excess of approved amounts. Vendor status can be changed from active to inactive. The system can handle holds and partial payments. AIM/AP can interface with the AIM/General Ledger system. Cash requirements reports and payment approval lists are generated. The system prints checks and a check register. Complete user documentation is provided for inexperienced computer operators.

Access to all AIM programs is password protected.

Price: \$1000

Contact: Maria Rich
(315) 337-1000
MULTICEPT CORP.
1721 Black River Boulevard
Rome, NY 13440

AIM/AR (Accounting Information Manager for Accounts Receivable)

Operating System: BOS/5

Keywords: • Accounts receivable • Billing

Memory required: 64K. Distribution media: 5¼" or 8" diskettes.

The multiuser AIM/AR system enables users to process, control, and manage an accounts receivable auxiliary ledger with its associated sales, receipts, adjustments, and reports. AIM/AR can easily interface at the front end with an invoicing system. AIM/AR can support either balance-forward or open-item accounting. Customer information can be accessed by customer number or by customer name. Customer status can flow between active and inactive. A statement text file allows messages to be printed on customer statements. Complete user documentation is provided.

Access to all AIM programs is password protected.

Price: \$1000

Contact: Maria Rich
(315) 337-1000
MULTICEPT CORP.
1721 Black River Boulevard
Rome, NY 13440

AIM/GL (Accounting Information Manager for General Ledger)

Operating System: BOS/5, MBOS/5

Keywords: • Financial analysis • General ledger
• Report writer

Memory required: 64K. Distribution media: 5¼" or 8" diskettes.

This comprehensive and highly flexible general ledger and financial reporting package is designed for small businesses. The account structure allows for multiple departments and multiple companies. Reports, which can be generated on demand, include financial statements, P/L statements, balance sheets, GL summary reports, budget reports, and ratio comparisons. Up to 99 journals can be used, including a special "locked" journal for prior-period adjustments. All operations are fully supported to the highest standards in auditability. AIM/GL is a multiuser system and can interface with AIM/Payroll. Complete user documentation is provided.

Access to all AIM programs is password protected.

Price: \$1000

Contact: Maria Rich
(315) 337-1000
MULTICEPT CORP.
1721 Black River Boulevard
Rome, NY 13440

AIM/PR (Accounting Information Manager for Payroll with Cost Accounting)

Operating System: BOS/5, MBOS/5

Keywords: • Cost accounting • Payroll • Taxes

Memory required: 64K. **Distribution media:** 5¼" or 8" diskettes.

AIM/PR offers standard payroll processes, labor cost accounting, payroll-related fringe benefit accruals, and manual checks. AIM/PR processes weekly, biweekly, monthly, and special payrolls. User-defined accruals and deductions allow customization. Both hourly and salaried employees with individual hour premiums are acceptable. Multiple-state income taxes, local income tax, individual earnings, personnel records, 12 deduction categories, 6 work-hour types, 99 departments, 30 labor charge codes, and 6 accrual accounts are featured. The AIM/Payroll system is a multiuser system and can interface with the AIM/General Ledger system. Complete user documentation is provided.

Access to all AIM programs is password protected.

Price: \$1500

Contact: Maria Rich

(315) 337-1000

MULTICEPT CORP.

1721 Black River Boulevard

Rome, NY 13440

AP-11 (Accounts Payable)

Operating System: Micro/RSTS, Micro/RSX, RSTS

Keywords: • Accounts payable • Billing • Financial analysis

Distribution media: 800/1600/6250 bpi magnetic tape, RK07, RL02, RM03, RX50.

This system features a highly flexible method of posting accounts payable charges and making cash disbursements to vendors. All posting is done with an interactive screen form, designed to make posting faster and easier. Other user-oriented features include:

- User-defined vendor codes with up to 15 characters and a miscellaneous vendor class for 1-time payments
- A user-designed check form that accommodates almost any check design
- The choice of processing invoice payments individually or automatically for a group of vendors
- Recurring charges stored for group posting each period
- Multiple accounts payable control accounts that may be used in the same posting session

- A posting process that allows the user to hold invoices, make partial and unapplied payments (prepayments or CODs), and make allowances for manual payments
- User-defined terms and discounts that can be modified during payment of invoices
- 1099s printed for specified vendors
- An audit trail for all entries provided by transaction journals
- Check reconciliation for outstanding checks and error corrections
- General ledger account distributions posted individually or summarized by account
- A password security system
- Interfaces to CN-11 Job Cost and GL-11 General Ledger; other complementary products include the PY-11 Payroll, AR-11 Accounts Receivable, FA-11 Fixed Assets, OE-11 Order Entry, and IC-11 Inventory Control systems

AP-11's reports include analyses of cash requirement, aged invoices, unapplied payments, invoice detail by vendor, a recurring invoice listing, a vendor and vendor class listing, and a check register and check reconciliation report.

The AP-11 user's guide includes information for the office manager, the terminal operator, and the application supervisor. The reference manual provides information on installation procedures, program flows, and data formats for the system manager and programmers.

A version of this product is available for the A-to-Z system.

A version of this product is available for the VAX computer.

Price: \$1600 - \$7500

Contact: Sales Department

(806) 792-3785

COMPU-SHARE, INC.

3824 50th Street

Lubbock, TX 79413

A/P (Accounts Payable)

Operating System: RSTS

Keywords: • Accounts payable

This system is available for balance-forward and open-item combinations. Aged amounts are maintained for the outstanding balances due to each supplier as well as an optional ability to maintain hold-backs, if applicable. A significant feature of the system is the check-writing function, which can be based on an invoice due date or on the age of the outstanding transactions. Transactions are entered and validated on line. An on-line inquiry program yields a display of the current status of any supplier. Reports include a payables journal (listing all detail), a supplier name and address list, labels, optional

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check generator and remittance advice, an aged trial balance, and a document register. Integration to other applicable Data Key applications is a standard feature.

Price: \$3000

Contact: Marvin Gogal, Branch Manager
(403) 464-7121
DATA KEY LTD.
2107 87th Avenue
Edmonton, Alberta T6P 1LS
Canada

A/P (Accounts Payable), MCBA, Inc.

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts payable • Report writer

This accrual accounts payable package allows maintenance of the vendor file; entry and editing of new payables, adjustments, credits, and prepaids; flexible payment preparation, including partial payments; check reconciliation; automatic interface to MCBA's general ledger, job costing, standard product costing, and purchase order/receiving packages; full printer spooling; support for seven terminal types and multiple companies; and a security system.

This package also prints the vendor file printout, alphabetical vendor list, accounts payable voucher register, accounts payable aging report, vendor analysis inquiry, vendor account inquiry, cash requirements report, pre-check-writing report, accounts payable check register (and accounts payable checks), accounts payable/general ledger distribution report and cross-reference by vendor, check reconciliation report, and federal 1099 forms.

A version of this product is available for the VAX computer.

Price: \$2000 - \$3000

Contact: Sales Representative
(818) 957-2900
MCBA, INC.
2441 Honolulu Avenue
Montrose, CA 91020

APPGEN Accountants Client Write-Up

Operating System: UNIX* (Version 7), XENIX

Keywords: • Data collection • Payroll • Purchasing
• Report writer

This program provides report writing features and flexible data entry for accountants. Data input accuracy is maintained because the system allows transaction entries to be edited and corrected before posting. Plus, transaction entry screens match the formats of the original documents. Entry screens exist for each type of original document —

cash disbursements, sales, purchases, payroll deposits, and journals. Payroll and cash disbursement check entry may be mixed. However, statements produced through the statement generator are not tied to the chart of accounts format.

The system allows flexible account number formats, on-line CRT account inquiry for any account, a unique fiscal year for each client, and recurring journal entry. The system automatically generates a budget based on the prior years' budgets. Plus, the system includes audit trails — posting programs that automatically produce journals.

Reports include trial balance, general ledger, and worksheet reports. Payroll reports include summary, history, 941s, quarterly, and W-2s.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$3500

Contact: Steve Thomas, Vice President, Marketing
(713) 974-2298 or (800) 231-0062

SOFTWARE EXPRESS

2925 Briarpark Boulevard, 7th Floor
Houston, TX 77042

APPGEN Accounts Payable

Operating System: UNIX* (Version 7), XENIX

Keywords: • Accounts payable • Printing • Report writer

This system provides comprehensive transaction abilities for vendor invoices, debit and credit memos, adjustments, and manual checks. Transaction entries may be edited and corrected before posting for data-input accuracy. Plus, transaction entry screens match the formats of the original documents.

The system allows manually written checks to be entered, edited, and posted and includes built-in check-reconciliation abilities. Plus, checks may be printed by A/P account or cash account number.

Vendor-oriented features include alphabetic or numeric vendor listings. A screen display allows inquiry into open items by vendor. Plus, a cash-requirements report may be printed by vendor or A/P account number. An aging report may be printed that includes all or selected vendors or that lists vendors by account number. The system also includes a payables voucher selection for payment, vendor file maintenance facilities, and vendor analysis reports.

The system includes audit trails — posting programs that automatically produce journals. This system integrates with the Job Cost and General Ledger systems.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

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Price: \$600

Contact: Steve Thomas, Vice President, Marketing
(713) 974-2298 or (800) 231-0062

SOFTWARE EXPRESS

2925 Briarpark Boulevard, 7th Floor
Houston, TX 77042

APPGEN Accounts Receivable

Operating System: UNIX* (Version 7), XENIX

Keywords: • Accounts receivable • Billing • Credit
• Report writer

This system handles the accounts receivable functions for sales. Data input accuracy is maintained by allowing transaction entry screens to be edited and corrected before posting. Plus, transaction entry screens match the formats of the original documents. Transaction entries include sales, cash receipts, credit memos, debit memos, adjustments, and finance charges. The system interfaces to the invoicing system for automatic input of sales entry information.

The system allows complete customer and salesperson file maintenance. Information may be added, deleted, or modified. Customers may be listed alphabetically or numerically. The user may perform on-line inquiries into customer accounts. The system accommodates open-item and balance-forward accounts simultaneously. Open credits may be held and applied in accounts as desired.

Reports include production of detail or summary aged trial balances with automatic or operator-specified cut-off dates. Customer ranges may also be specified. The system also performs statement runs on demand. Sales reports include monthly sales summary, monthly cash summary, and commissions due. Plus, the system automatically calculates and posts finance charges. Audit trails include posting programs that automatically produce journals.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$600

Contact: Steve Thomas, Vice President, Marketing
(713) 974-2298 or (800) 231-0062

SOFTWARE EXPRESS

2925 Briarpark Boulevard, 7th Floor
Houston, TX 77042

APPGEN Fixed Assets

Operating System: UNIX* (Version 7), XENIX

Keywords: • Financial analysis • Fixed assets • Taxes

This program provides the following:

- Classification and categorization of assets in any order desired, with appropriate group totals
- Depreciation, including all ACRS methods; 125%, 150%, and 200% declining balance; sum of the year's digits; and straight line for any period desired
- Automatic shift from declining balance to straight line when advantageous, if requested
- Bonus depreciation calculations, with automatic limitations
- Investment credit report with automatic calculations of investment credit in the same format as Form 346B, including limitations on used Section 38 property
- Investment credit recapture report
- Automatic calculations of excess depreciation for recapture upon sale of asset
- Depreciation schedule, 8½" x 11" size for submittal with tax return

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$2000

Contact: Steve Thomas, Vice President, Marketing
(713) 974-2298 or (800) 231-0062

SOFTWARE EXPRESS

2925 Briarpark Boulevard, 7th Floor
Houston, TX 77042

APPGEN General Ledger

Operating System: UNIX* (Version 7), XENIX

Keywords: • General ledger • Printing

General Ledger, also fed by Accounts Payable, Payroll, and Accounts Receivable as a comprehensive single-entry system, provides flexible account number formats; automatic budget generation, based on prior year's budget; on-line CRT account inquiry with detail; recurring journal entry; multicompany financial reporting; data-input accuracy, as transaction entries may be edited and corrected prior to posting; transaction entry screens that match the format of original documents; and audit trails — posting programs automatically produce journals.

The comprehensive statement generator allows customized financial statements, including statement of change in financial condition. Statements are not tied directly to the chart of accounts format. The trial balance, general ledger, and worksheet reports are standard.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

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Price: \$600

Contact: Steve Thomas, Vice President, Marketing
(713) 974-2298 or (800) 231-0062

SOFTWARE EXPRESS

2925 Briarpark Boulevard, 7th Floor
Houston, TX 77042

APPGEN Job Cost

Operating System: UNIX* (Version 7), XENIX

Keywords: • Cost accounting • Project management
• Report writer

This program is fed from the Accounts Payable and Payroll systems. Job Cost provides flexible job identification and allows CRT job inquiry for on-line analysis of jobs. The system allows summary and detail cost tracking with unlimited cost categories in a job. User-defined subtotalling on reports, period and job-to-date cumulative hours and dollars, and cost versus budget data, with completion percentage and projections, are included.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$1500

Contact: Steve Thomas, Vice President, Marketing
(713) 974-2298 or (800) 231-0062

SOFTWARE EXPRESS

2925 Briarpark Boulevard, 7th Floor
Houston, TX 77042

APRA

Operating System: RSTS

Keywords: • Accounts payable • Accounts receivable • Audit
• General ledger

This integrated accounting system comprises sales ledger, purchase ledger, and nominal ledger for commercial organizations with an annual turnover in excess of £5 million. The system interfaces directly with the OPRA order processing and stock control system. APRA features comprehensive audit trail comprising daybooks and controls; open-item or balance-forward reporting; VAT schedules; debtors/creditors analyses; production of statements and remittance advices with checks, cash commitment schedule, accruals, prepayments, and standing orders; budget comparisons; flexible trial balance presentation; and trading, profit and loss, and balance sheet sections.

A version of this product is available for the VAX computer.

Price: £5500 – £9000

Contact: J. Goldsmith

0252 544321

SOFTWARE SCIENCES LTD.

Abbey House, 282/292 Farnborough Road

Farnborough, Hampshire GU14 7NB

England

APS (Accounts Payable System)

Operating System: RSTS

Keywords: • Accounts payable • Data entry • Report writer

This comprehensive interactive system provides all current vendor, voucher, and check-payment information through direct on-line queries. Upon vouchering, invoices can be charged with multiple expense distributions. APS accommodates a 24-character alphanumeric distribution code and automatically consolidates and reports the distribution by code and vendor.

This flexible system generates cash-disbursement prelists of scheduled vendor payments to allow management to review and improve payment, hold payment, or extend payment dates. Checks are automatically generated and are designed for immediate mailing in window envelopes. Voucher stubs are attached as supporting detail to indicate which invoices are being paid. Payment runs can be made on a monthly, semimonthly, weekly, or as-needed basis. In addition, APS supports the use of manual (prepaid) checks with the subsequent terminal entry of all pertinent information. Screen-formatted entry programs foster user acceptance and transaction reliability. The system is fully integrated through an automatic interface to the White Hat General Ledger System, ensuring prompt and accurate accounting-period closes. A comprehensive set of reports includes Voucher Register, Vendor Master List, Cash Requirement Reports, Check Registers, Transaction Proof Listings, Check Reconciliation Report, Outstanding Check Journals, Paid Voucher Lists, Detailed Expense Distributions, and a 1099 Vendor Summary.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Linda M. Dobias

(617) 933-3780

WHITE HAT SYSTEMS, INC.

331 Montvale Avenue

Woburn, MA 01801

AR-11 (Accounts Receivable)

Operating System: Micro/RSTS, Micro/RSX, RSTS

Keywords: • Accounts receivable • Billing • Taxes

Distribution media: 800/1600/6250 bpi magnetic tape, RK07, RL02, RM03, RX50.

This system features a highly flexible method of posting customer charges and payments and obtaining historical reports and aging analyses. All posting is done with an interactive screen form, designed to make posting faster and easier. Other user-defined features include:

- User-defined numeric or alphabetic customer codes and a user-designed customer statement that accommodates almost any statement design
- Multiple shipping addresses for each customer and billing to another customer
- The choice of posting on an open-item or a balance-forward basis
- Recurring customer charges stored for posting
- Unapplied credits allowed
- Reports for an unlimited date range and user-defined dates for aging analyses
- Commission calculations and reporting, including shared commissions, on sales or receipts and sales analyses available by company, salesperson, or product department
- Sales tax for multiple taxing entities
- An audit trail for all entries provided by transaction journals
- A password security system
- Interfaces to OE-11 Order Entry and GL-11 General Ledger; other complementary products include the AP-11 Accounts Payable, PY-11 Payroll, FA-11 Fixed Assets, CN-11 Job Cost, and IC-11 Inventory Control systems

AR-11's reports include sales analyses and daily sales summaries, an aged accounts receivable, invoice payment analysis, customer and recurring accounts receivable listings, commission reports, customers over credit limit, and a tax liability report.

The AR-11 user's guide includes information for the office manager, the terminal operator, and the application supervisor. The reference manual provides information on installation procedures, program flows, and data formats for the system manager and programmers.

A version of this product is available for the A-to-Z system.

A version of this product is available for the VAX computer.

Price: \$1600 - \$7500

Contact: Sales Department
(806) 792-3785

COMPU-SHARE, INC.
3824 50th Street
Lubbock, TX 79413

A/R (Accounts Receivable)

Operating System: RSTS

Keywords: • Accounts receivable

This system is available for balance-forward and open-item combinations. Aged amounts are maintained, and the ability to levy service charges dependent on those amounts with variable interest rates is provided. Optionally, payment terms and customer holdbacks can be handled. Transactions entered result in immediate update applied against the customer record and are edited and validated on line. An on-line inquiry program displays the current status of any customer. Statements can be produced with a variety of optional formats. Other reporting facilities include a receivables journal (listing all detail), an aged trial balance, a customer name and address list, mailing and filing labels, an outstanding-transaction list (open item only), and a document audit register.

Price: \$3000

Contact: Marvin Gogal, Branch Manager
(403) 464-7121

DATA KEY LTD.
2107 - 87 Avenue
Edmonton, Alberta T6P 1L5
Canada

A/R (Accounts Receivable), MCBA, Inc.

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts receivable • Report writer

This open and/or balance-forward accounts receivable package allows maintenance of salesperson, customer master, A/R valid G/L account files; entry and editing of sales, credit and debit memos, and cash receipts; inquiry into customer accounts through the CRT; automatic or manual calculation of finance charges; interface to MCBA's general ledger and customer order processing packages; a security system; and support for multiple companies.

This package also prints the customer master file printout; alphabetical customer list; sales and receipts journals; accounts receivable aging, A/R-to-G/L distribution, and commissions-due reports; finance charges report; and sales analysis by customer, customer type, salesperson, territory, and sectional center.

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A version of this product is available for the VAX computer.

Price: \$2000 - \$3000

Contact: Sales Representative
(818) 957-2900

MCBA, INC.
2441 Honolulu Avenue
Montrose, CA 91020

A/R, A/P (Accounts Receivable, Accounts Payable)

Operating System: RSTS

Keywords: • Accounts payable • Accounts receivable

Distribution medium: 9-track magnetic tape.

The Accounts Receivable system, which uses a detailed open-item-processing technique, maintains a complete breakdown of the invoices affected by any payment and a list of all payments applied to a given invoice. Other features include:

- Separate aged A/R listings of different revenue groups, such as sales and rental invoices. This feature is invaluable if groups are financed from different sources.
- On-line displays of a client's account, including all open-item transactions.
- An interactive routine for payments entry and allocation, thereby minimizing keystrokes and maximizing accuracy.
- Monthly statements for a set of clients (rather than for all clients).
- User-friendly validation reports; the system automatically includes the client's name and the G/L description.
- Automatic posting to the G/L.

The Accounts Payable system features multicurrency processing; support for manual checks and discounts; on-line display of vendor information, including open items; and aged A/P listings. The system also includes invoices that may be paid according to a regular cycle run or by specific invoice number. A simulation run precedes the actual check generation to allow careful analysis of the impact on cash flow.

A version of this product is available for the VAX computer.

Price: \$12,000

Contact: Robert Brown
(902) 429-3175

DYMAXION RESEARCH LTD.
Box 1053, Armdale Station
Halifax, Nova Scotia B3L 4L5
Canada

ARS (Accounts Receivable System)

Operating System: RSTS

Keywords: • Accounts receivable • Order entry

This comprehensive interactive accounts receivable system for open-item and balance-forward methods of cash application provides all current customer, credit, and invoice information through on-line queries from multiple terminals. Transactions are journalized for control purposes, providing a complete and comprehensive audit trail. Additionally, the system tracks and reports by general ledger distribution and organization code accounts all accounting data entering the system. The ARS user can apply and account for postings of cash, debit memos, and unapplied cash. Credit memo invoices may be entered and applied at a later date. Finance charge invoices for selected customers may also be generated. The ARS system contains an extensive credit management subsystem. Credit limits and risk codes may be assigned to each customer. The system is fully integrated through a posting process with the White Hat Order Processing and General Ledger systems, ensuring prompt and accurate accounting period closes. A comprehensive set of reports includes Invoice Register, Posting Journals, Summary and Detailed Aged Trial Balances, Delinquent Register, Customer Master List, Sales Distribution Report, Input Proof Listing, Cash Application Journal, Cash Deposit Recap, and a Commission Register.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Linda M. Dobias
(617) 933-3780

WHITE HAT SYSTEMS, INC.
331 Montvale Avenue
Woburn, MA 01801

ATT (Automated Time and Attendance)

Operating System: RSTS

Keywords: • Data collection • Payroll • Statistics

This system interfaces with an automated (electronic) time clock to track and record employee attendance, lateness, and absences. ATT is linked to a benefits accrual base so that absences or penalties for lateness are charged to the appropriate fringe benefit, such as vacation, sick, and so forth and/or payroll system. ATT significantly reduces the time necessary to calculate and process employee hours worked each payroll period. The system generates a daily shift report and a weekly attendance report and accrues lateness monthly and annually. ATT operates as part of HDS/11 or independently.

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Price: Available upon request

Contact: Robert Greenblatt
(914) 423-3623

ADL DATA SYSTEMS, INC.
50 Stratton Street South
Yonkers, NY 10701

BAS (Budgetary Accounting System)

Operating System: RSTS

Keywords: • Cost accounting • Financial analysis

This financial and administrative package is designed for colleges, universities, school boards, municipalities, and paragonovernmental agencies. BAS features integrated encumbrance and actual general ledger; multiple user-defined chart-of-account structures that support element dictionaries; a financial report writer with user-defined format, account selection and sequence, totaling hierarchy, selection of financial data elements, journal entry detail, and arithmetic calculations and capability of combining current year and up to nine prior years of history; user-defined subledger control (capital, work orders, special projects, vehicle cost, and so forth); accounts payable and check processing/reconciliation; vendor control and information; and purchase order (commitment) control.

A version of this product is available for the VAX computer.

Price: \$30,000 (Canadian)

Contact: Dennis Sakamoto
(416) 433-2100

S.R.B. INTERNATIONAL LTD.
Whitby Corporate Centre
209 Dundas Street E., Suite 205
Whitby, Ontario L1N 7H8
Canada

Budgetary Accounting

Operating System: CTS-300, RSTS, RT-11

Keywords: • Financial analysis

This on-line real-time system computerizes all fund accounting, including appropriations, revenues, disbursements, budgeting, and vendors. The system also provides complete accountability and reporting as required. Financial information is available through inquiry or selected report request.

The menu-driven system prevents expenditures of unavailable funds and provides ease of operation, real-time account history inquiry, and editing and verification of transactions. On-line real-time add, change, delete, and printout functions are available for appropriation, revenue, fund, vendor, budget, encumbrance, and disbursement maintenance. Availability of money will be verified upon each encumbrance transaction. Entries may be edited before posting.

Daily disbursement transactions are for regular payment of purchase order, payment of contract, disbursement of previously issued warrant, unencumbered warrants, transfers, and court warrant.

Available reports include appropriation ledger, receipt ledger, fund ledger, outstanding-encumbrance list, outstanding-warrants list, budget and receipt reports, and monthly financial statements.

Price: \$6000 - \$10,000

Contact: James W. Sanderbeck, Vice President
(216) 489-1885

PM COMPUTER SERVICES CO.

630 - 30th Street, N.W.

Canton, OH 44709

CAS (Comprehensive Accounting System)

Operating System: CTS-300, RSTS

Keywords: • Financial management • Inventory
• Purchasing • Sales analysis

This system, written in DIBOL, is highly interactive and menu driven. The major modules include Accounts Payable, Accounts Receivable, Payroll, Inventory Management, Order Entry/Invoicing, Purchasing, and Sales Analysis, with all modules interfaced with General Ledger. The menu system incorporates password security, allowing only those users with authorization to access specific modules. In addition, menu presentations list only those modules accessible to the user.

Print management includes on-line/character printers, spooling, printers attached to terminals, and multiple-pitch selection for character printers. Terminal compatibility includes VT100 and VT200 series. Internal file management fully protects data files and provides an automatic restart recovery feature in the event of power failure or other interruption.

CAS supports multiple branch/division organizations by allowing multiple inventories, customer sets, vendor sets, and so forth. The integrated general ledger produces consolidated financial statements, as well as combined consolidated holding-company balance sheets and profit or loss statements from organizational entities.

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The software installation procedure is highlighted by a menu-driven automatic process that queries the operator for tailored options, then installs the software without further intervention. All update activity produces a complete audit trail, including master file maintenance. Site-specific information, such as company name, sales tax locations and rates, state payroll tax tables, inventory pricing rules, and so forth, is stored in a common table master. Thus, users can tailor and update frequently, changing variables to meet specific business needs.

A version of this product is available for the VAX computer.

Price: \$5560 - \$13,125

Contact: Dan Sadler

(801) 268-1395

D & M SYSTEMS, INC.

986 Atherton Drive, Suite 201

Salt Lake City, UT 84123

CAS.1 (General Ledger)

Operating System: CTS-300, RSTS

Keywords: • General ledger • Report writer

This module may be interfaced with the other CAS modules and uses the standard double-entry accounting method. The module consists of interface management, manual journal entry, chart-of-account maintenance, budgeting, and prior-year history. Four standard report formats, consisting of general ledger, working trial balance, source cross-reference, and chart-of-account listings, are provided as well.

A user-maintained report writer allows a user to custom tailor balance sheets, profit or loss statements, budget analysis, prior-year comparisons, components of working capital, cash flow, changes in financial position, and other user-created reports. When fully interfaced with other CAS modules, daily financial statements are available. A multiple branch/division entity structure provides reports at the most detailed or most consolidated level.

The general ledger account number format can be up to 16 characters with embedded dashes for structured account numbering. Automatic chart-of-accounts generation allows a basic skeleton of accounts to be expanded to meet the needs of all subsidiary reporting entities. Year-end closing is an automatic process and does not require reentry of balances that are carried forward.

A version of this product is available for the VAX computer.

Price: \$695 - \$1640

Contact: Dan Sadler

(801) 268-1395

D & M SYSTEMS, INC.

986 Atherton Drive, Suite 201

Salt Lake City, UT 84123

CAS.2 (Accounts Payable)

Operating System: CTS-300, RSTS

Keywords: • Accounts payable

This module, which may be interfaced with general ledger and uses accrual accounting, consists of vendor file maintenance, voucher entry, partial payment entry, pre-check writing, cash requirements, check writing, check register, general ledger account distribution, alphabetical vendor list, aging analysis, monthly disbursements, monthly check register, and vendor analysis. CAS.2 handles detailed or summary general ledger distributions, single vendor master common to all branches or multiple vendor masters unique to each branch, and automatic or manual voucher number control and optionally forces all discounts to be taken. Multiple cash accounts may be used for single or multiple branches, which allow multiple accounts payable accrual accounts. Discounts may be automatically calculated as a percentage or entered as a specific dollar amount.

Support for hand-written and prepaid or partial payments is provided so that all accounts payable information is consistently posted to the general ledger. Check writing provides for multiple invoices/vouchers to be paid with the same check. Full control of checks to be written is provided through the interactive pre-check writing, allowing individual selection of vendors and vouchers to be paid, and individual deferral of vendors and vouchers, as well as selection and deferral by cut-off date across all vendors and vouchers.

General ledger account distribution can be reviewed in detail and in summary prior to the interface to general ledger.

A version of this product is available for the VAX computer.

Price: \$695 - \$1640

Contact: Dan Sadler

(801) 268-1395

D & M SYSTEMS, INC.

986 Atherton Drive, Suite 201

Salt Lake City, UT 84123

CAS.3 (Accounts Receivable)

Operating System: CTS-300, RSTS

Keywords: • Accounts receivable • Billing • Sales analysis

This module, which may be optionally interfaced with general ledger and order entry/invoicing, consists of cash receipts, manual sales entry, account inquiry, aging analysis, customer file maintenance, alphabetical customer list, label printing, monthly finance charging, monthly customer statements, monthly sales/cash summary, sales tax reporting, and salesperson reporting. CAS.3 allows tailorable interface with general ledger, single customer master common to all branches or multiple customer masters unique to each branch, daily or monthly aging, minimum finance charge with base, and future aging.

Individual customers may be established as balance-forward or open-item accounting methods, have separate bill-to records, individual finance charge rates, and allow or disallow monthly statements with or without past-due messages. Aging reports are available on demand, providing detailed or summary analysis, no activity, delinquent account, and credit balance account exception reports. Salespersons may be defined by name. Information is reported on each salesperson for sales/costs month to date and year to date. Terms can be tailored, including discount percentage, default terms day, default terms month, and whether aging should be based on invoice date or due date.

Sales tax location codes may be defined by description and preset with a percentage of tax; freight tax may be allowed or disallowed. Information is reported on taxable/nontaxable sales with sales/freight tax collected month to date and year to date.

Past-due messages may be defined for 30, 60, and 90+ days past due, with 100 characters available for each delinquent period. Credit history for each customer is maintained, including 12 prior months of payment history. Cash receipts may be automatically applied to multiple open items or posted as unapplied for later application.

A version of this product is available for the VAX computer.

Price: \$695 - \$1640

Contact: Dan Sadler

(801) 268-1395

D & M SYSTEMS, INC.

986 Atherton Drive, Suite 201

Salt Lake City, UT 84123

CAS.4 (Payroll)

Operating System: CTS-300, RSTS

Keywords: • Employment • Payroll • Taxes

This module, which may be integrated with general ledger, consists of employee file maintenance, alphabetical employee list, time entry, precalculated and adjustment entry, income and withholding calculation, check writing, employee earnings reports, monthly and quarterly reports, and W-2s. CAS.4 allows tailorable interface with general ledger, with multiple distributions of gross pay and deductions, multiple- or single-branch support, exclusion of sick pay from FICA, employee numbering format, and labor distribution format.

Departments may be defined by collective or individual branches, with full detail and summary reporting for each payroll period. Fifteen employee deductions in addition to government deductions are provided, with the first five retaining totals on month to date, quarter to date, and year to date. Those deductions can be dollar amounts or percentages of gross pay or hours and may be withheld at different payroll intervals. Federal and state withholding tax tables, FICA withholding rate/limit, annual exemption amount, and federal and state unemployment rate/limit are user maintained and accessible through menu selection.

Simultaneous pay periods based on weekly, biweekly, semimonthly, and monthly are all supported. Hire date, termination date, last raise date, base pay for salary, city tax withholding, and additional federal, state, city withholding, vacation, and sick pay are all provided with this module.

A version of this product is available for the VAX computer.

Price: \$695 - \$1640

Contact: Dan Sadler

(801) 268-1395

D & M SYSTEMS, INC.

986 Atherton Drive, Suite 201

Salt Lake City, UT 84123

CAS.5 (Inventory Management)

Operating System: CTS-300, RSTS

Keywords: • Inventory

This module consists of inventory item maintenance, item receiving entry, adjustments entry, price change, count physical inventory, stock inquiry, stock status, and stock valuation. CAS.5 allows tailorable interface with general ledger, purchasing, procurement planning, order entry/invoicing, buyer codes, commodity codes, selling price rule codes, unit of measure codes, and branch transfer markup. CAS.5 distinguishes among stock and nonstock items and sundry items. The user may suggest alternative items for out-of-stock

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items. Sales history by item can be accumulated as well. If purchasing is integrated, receivings updates open purchase orders. If procurement planning is integrated, stock needs can be projected based on up to 18 months of prior history. If desired, CAS.5 can be a stand-alone module without order entry invoicing, using receivings and adjustments to reflect inventory fluctuations.

A version of this product is available for the VAX computer.

Price: \$695 - \$1640

Contact: Dan Sadler

(801) 268-1395

D & M SYSTEMS, INC.

986 Atherton Drive, Suite 201

Salt Lake City, UT 84123

CAS.6 (Order Entry/Invoicing)

Operating System: CTS-300, RSTS

Keywords: • Order entry

This module may optionally be interfaced with General Ledger and requires the Inventory Management and Accounts Receivable modules. The module handles order entry, order status, picking lists, invoicing, and back-order reporting.

CAS.6 allows tailorable order number control; order-field defaults; codes for credit status, customer price, FOB, freight allowance, memo reason, price change reason, and shipped-via codes; and price rule tables.

Order Entry may be used to produce invoices at the user's option. If invoices are to be produced, a 2-step process, including picking lists, can be implemented; or, invoices can be produced, omitting the picking list function. In addition, a counter invoicing feature of Order Entry is available to create real-time invoices for a direct-sales environment. When orders are posted, general ledger, inventory management, accounts receivable, and sales analysis are automatically updated.

A version of this product is available for the VAX computer.

Price: \$695 - \$1640

Contact: Dan Sadler

(801) 268-1395

D & M SYSTEMS, INC.

986 Atherton Drive, Suite 201

Salt Lake City, UT 84123

CAS.7 (Purchase Order)

Operating System: CTS-300, RSTS

Keywords: • Purchasing

This module, integrated with Inventory Management through receivings, consists of a purchasing advice report, purchase order entry, a purchase order status report, purchase order printing, and purchase order back-order reporting. CAS.7 includes a vendor purchase advice that scans the inventory, printing suggested order quantities, based on stock level, quantity on order, quantity in transit, quantity committed, and order point. Purchase orders are maintained by purchase order number; the information required includes buyer, vendor, terms, ship-by date, cancel-by date, and detailed specifics on items being ordered.

The Inventory Management Receivings module updates open purchase orders as stock is received.

A version of this product is available for the VAX computer.

Price: \$695 - \$1640

Contact: Dan Sadler

(801) 268-1395

D & M SYSTEMS, INC.

986 Atherton Drive, Suite 201

Salt Lake City, UT 84123

CAS.8 (Sales Analysis)

Operating System: CTS-300, RSTS

Keywords: • Sales analysis

This module provides customer analysis reports from the Accounts Receivable module and item analysis from Inventory Management. CAS.8 interactively queries for information to be included in the report by a range of information that may be in the file and allows the order sequence of the report to be selected and subtotaled within the selections.

A version of this product is available for the VAX computer.

Price: \$695 - \$1640

Contact: Dan Sadler

(801) 268-1395

D & M SYSTEMS, INC.

986 Atherton Drive, Suite 201

Salt Lake City, UT 84123

Chronicle™ Business Applications Software

Operating System: UNITY, UNIX* (Version 7)

Keywords: • Accounts payable • Billing • Distribution
• Financial management

This family of advanced business applications software uses sophisticated computer architecture and is particularly suited to the new 16- and 32-bit microprocessor systems. Chronicle runs on almost any machine using the UNIX* system and is portable to any of the major relational data bases. Chronicle extracts information on request in the form you choose.

The first phase of Chronicle, an accounting system, incorporates accounts payable, accounts receivable, and general ledger. The second phase serves the distribution industry and includes inventory, invoicing, purchase order processing, sales analysis, and sales order processing.

Chronicle's modular design can be customized to support national and local requirements. That design also allows Chronicle to interface with other modules and packages.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$1000 - \$2500/module

Contact: Sales Department
(416) 922-1937

HUMAN COMPUTING RESOURCES CORP.
10 St. Mary Street
Toronto, Ontario M4Y 1P9
Canada

Client Accounting

Operating System: CTS-300, RSTS, RSX, UNIX* (Version 7)

Keywords: • Financial analysis • General ledger • Payroll
• Taxes

The Client Accounting system is user oriented and CPA supported. The system provides multiclient processing of general ledger and financial statements for an unlimited variety of client businesses. The key element is the highly flexible report writer for designing financial statements. Also integral is the sophisticated handling of consolidations for multientity clients (departments, regions, divisions, and so on).

The system contains a 12-digit general ledger account number, recurring journal entries, reversing journal, prior-year comparison, year-to-date detail of general ledger transactions, post-facto payroll, and continual updates and enhancements.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$2000 - \$12,500

Contact: Marc Alexander, National Sales Manager
(503) 641-8100

ALPINE DATASYSTEMS, INC.

8043 SW Cirrus Drive
Beaverton, OR 97005

Client Accounting

Operating System: TSX-PLUS

Keywords: • Scheduling

A client accounting application is typically used by CPA and PA firms to do the bookkeeping for their clients. This program contains a large chart of accounts with subledgers and profit centers and also handles scheduling and source and application of funds. The system accommodates an after-the-fact payroll of up to 30 employees for a small business and prints 941 and W-2 reports from this after-the-fact payroll.

Price: \$3000

Contact: Sam Wingate, Vice President
(813) 935-8844 or 935-8951

AUTOMATION RESOURCES CORP.

2901 W. Busch Boulevard, Suite 309
Tampa, FL 33618

Clover Personal Income Tax Package

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts payable • Fixed assets • Taxes

This personal tax-processing system, developed by Mini Systems Inc., prepares federal income tax returns. Input is provided from interviewer forms completed by the tax preparer and is entered on line by the system operator. The system calculates and prints most tax schedules. The following federal forms and schedules are printed: A, B, C, D, E, F, G, R, SE, W, 2106, 2119, 2210, 2441, 3468, 3903, 4136, 4562, 4684, 4797, 4952, 4972, 5695, 6251, 6252, Office in Home State-ment, Education Expenses Statement, Miscellaneous Income, and 1040 and 1040-ES. Diagnostic reports, taxpayer letters, and invoices are also prepared. Forms are annually approved by the IRS.

The corresponding forms and schedules are also available for the California State Personal Income Tax Package. Annual updates are available.

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Price: \$2500

Contact: Gerald E. Rooney
(415) 443-3473

CLOVER SYSTEMS AND SOFTWARE
768 Avalon Way
Livermore, CA 94550

Community Action Agency/Fund Accounting System

Operating System: CTS-300, RT-11

Keywords: • Accounts payable • Data base management
• General ledger • Payroll

This package was developed for community action agencies but may be used by any organization requiring a fund accounting system. The package can handle up to 999 funds/programs.

The Payroll and Accounts Payable modules permit cost distribution by fund, fund unit (optional), and cost code. An employee's time or an invoice may be allocated among several funds. A single check is produced for each employee/vendor, and appropriate charges are made to each fund, including allocation of employer payroll taxes. Cost distribution data is retained for subsequent analysis/audit.

The General Ledger module allows individual fiscal years and a separate set of accounts for each fund. The ledger is automatically posted by other modules, and a posting summary of all transactions is retained for audit analysis.

A Client Tracking system is provided for community action agencies and maintains a data base defining all households and program participants being served. Some of the data provided for are assigned agency representative, geographic area, application date and status, last contact, household income and sources, and household language.

Price: \$5000 - \$15,000

Contact: R. A. Evanson
(507) 452-8833

PARAGON DATA SYSTEMS
927 East King Street
Winona, MN 55987

Complete Accounting Package

Operating System: RSTS

Keywords: • Cost accounting • General ledger • Payroll
• Sales analysis

Distribution medium: 5¼" diskette.

This integrated accounting package is made up of accounts payable, accounts receivable, sales order, job cost, inventory, payroll, and general ledger. Features of the system include interfaces with the NMI Circulation Management package, the NMI Personnel Searcher package, and the NMI Specialty Manufacturing package. Internal features of the system include multiple warehouse facilities in inventory; credit card transactions in sales order; flexible discount tables in accounts receivable; a complete purchase order utility in accounts payable; and the temporary payroll/integrated billing module in payroll.

Price: \$1995

Contact: Terri Akers

(215) 822-2407

NORTON-MURPHY INTERNATIONAL, INC.

176 Chalfont Road

Chalfont, PA 18914

CopyCalc

Operating System: RSTS

Keywords: • Data base management • Financial analysis
• Financial planning • Spreadsheets

Distribution media: 800/1600 bpi magnetic tape.

CopyCalc is an electronic spreadsheet system featuring forward-looking calculations, immediate calculations, increment summations, sort, report writing, forms processing, direct data management file interfaces, and worksheet consolidation. CopyCalc allows users to do forecasting, construction bidding, analysis, statistical reporting, and so forth. Options include POISE DMS Interface and a simplified User Entry that prevents worksheet modifications other than data entry.

The CopyCalc user need not plan for row or column calculations. CopyCalc looks forward into the worksheet to perform calculations as needed.

An "Immediate Calc" mode is also available for a user's selected range of cells. When indicating "Step in Summation," the user may specify an increment of every fourth cell.

CopyCalc will sort any section or all of a worksheet in ascending or descending order by primary and secondary keys.

The report-writing feature provides boardroom-quality reports directly from your worksheet. Multiple copies can be produced with headings centered over the worksheet reports. The forms-processing feature allows information in a worksheet to be printed into prewritten letters with critical calculations done from within CopyCalc.

CopyCalc has several direct data management file interfaces. They allow information that you have captured on your system to be moved into CopyCalc's worksheet system. CopyCalc can consolidate the information of many worksheets into a summary worksheet through command files that are built and edited from inside CopyCalc.

CopyCalc's help system allows you to get help during a worksheet session. That help system provides a graphic layout of the numeric keypad and details the use of the special functions keys. CopyCalc is extensively documented, with a complete lesson guide and a reference manual.

CopyCalc is a licensed product. Included in the standard CopyCalc software package is an ASCII file interface. Additional file interfaces may be purchased separately.

CopyCalc's demonstrations tape, which may be purchased for \$100, provides a 30-day trial use on your system. For distribution on media other than magnetic tape, please call for price and availability. The demonstration price can be applied toward the purchase price if a purchase order is received within 60 days of the demonstration order.

CopyCalc runs on DIGITAL computers under RSTS/E and with VT100-compatible terminals.

Price: \$1500 - \$3000

Contact: Lynda Swift, Sales
(805) 327-2118

ADVANCED DATA SUPPORT SYSTEMS, INC.
217 Mt. Vernon Avenue, Suite 1
Bakersfield, CA 93307

CPA-11 (Client Accounting)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Cost accounting • Financial analysis
• General ledger

Distribution media: RL01, RL02, RX01.

This flexible multiple-entity client accounting general ledger and financial reporting system is designed for accountants' client write-up, as well as for business and nonprofit associations requiring multiple financial reporting for subsidiaries, locations, cost centers, funds, and the like. Users can design their own reports. The system provides for virtually unlimited levels of consolidation: accounts receivable, accounts payable, and payroll and property management interface.

A version of this product is available for the VAX computer.

Price: \$3500 - \$5000

Contact: Frank J. O'Kane, President
(213) 441-3123

FRANKLEN COMPUTER SYSTEMS, INC.
715 Fremont Avenue
South Pasadena, CA 91030

CPA Payroll

Operating System: CTS-300, RT-11

Keywords: • Payroll

Distribution media: magnetic tape, RL02.

This multiclient payroll system provides all the processing and reporting required for CPA check writing. The system features an easy-to-use data entry sequence. The sequence permits data entry from turn-around documents or may be input directly from telephone instructions. That eliminates the need to manually write data on a source document.

A version of this product is available for the VAX computer.

Price: \$3000

Contact: David L. Ley
(313) 855-6181

RADLEY BUSINESS COMPUTERS
7071 Orchard Lake Road, Suite 305
W. Bloomfield, MI 48033

CPA Time and Billing

Operating System: CTS-300, RSTS, RSX, RT-11, TSX-PLUS

Keywords: • Billing • Scheduling

This program permits simple data entry, work in process by billing person, variable rates, client billing, aged accounts receivable, and partner management reports through a comprehensive system. The program includes features not found in other systems.

Price: \$3000

Contact: Sam Wingate, Vice President
(813) 935-8844

AUTOMATION RESOURCES CORP.
2901 W. Busch Boulevard, Suite 309
Tampa, FL 33618

Credit Receivable System®

Operating System: UNIX* (System III, System V, Version 7)

Keywords: • Accounts receivable

This interactive on-line system facilitates the processing of merchandise sales contracts by tracking customer payments on their respective contracts. Customer layaway payment tracking is also available. Late notices, finance charges, contract print, interactive monthly payment computation, and promise-to-pay tracking are featured.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$2500 - \$10,000

Contact: Vern Pang

(714) 978-1212

INFORMATION MANAGEMENT ASSOCIATES, INC.

1437 W. Palmyra

Orange, CA 92668

CSI Accounts Payable

Operating System: RSX, RT-11

Keywords: • Accounts payable • Purchasing

This program includes an alphabetical listing of up to 500 vendors, with total year-to-date purchases and balances due, and handles up to 400 active vouchers. The program selects deferred payments and creates a cash-requirements report for up to 1000 payments, checks, and a check register. The package may be purchased on a stand-alone basis or as an integrated part of CSI's Business System.

Price: \$1500

Contact: Madelyn Scheer

(608) 258-8668

CREATIVE SOFTWARE INC.

P.O. Box 3493

Madison, WI 53704

CSI Business System

Operating System: RSX, RT-11

Keywords: • Accounts payable • General ledger • Payroll

CSI Business System includes Payroll, Accounts Payable, and General Ledger, with all data posted to General Ledger. The user-oriented system is designed for small to medium-size businesses and is set up in house. Modules may be used stand alone.

Price: Available upon request

Contact: Madelyn Scheer

(608) 258-8668

CREATIVE SOFTWARE INC.

P.O. Box 3493

Madison, WI 53704

CSI General Ledger**Operating System:** RSX, RT-11**Keywords:** • General ledger • Office systems • Spreadsheets

This system produces operating statements, budget statements, and balance sheets from a transaction journal. Up to 255 accounts and 100 departments can be defined. Transactions are limited to 600 a month, with up to 2048 subtransactions. The package may be purchased on a stand-alone basis or as an integrated part of CSI's Business System.

Price: \$2000**Contact:** Madelyn Scheer
(608) 258-8668

CREATIVE SOFTWARE INC.

P.O. Box 3493

Madison, WI 53704

CSI Payroll**Operating System:** RSX, RT-11**Keywords:** • Payroll

This program prints checks, stubs and check registers, W-2 forms, and yearly and periodic reports. Hourly or salaried employees in separate departments can be handled. Governmental deductions are user-updated, with three extra user-defined deductions. The package may be purchased on a stand-alone basis or as an integrated part of CSI's Business System.

Price: \$2000**Contact:** Madelyn Scheer
(608) 258-8668

CREATIVE SOFTWARE INC.

P.O. Box 3493

Madison, WI 53704

CW-11 (Client Write-Up)**Operating System:** Micro/RSTS, Micro/RSX, RSTS**Keywords:** • General ledger • Payroll • Report writer
• Spreadsheets

Distribution media: 800/1600/6250 bpi magnetic tape, RK07, RL02, RM03, RX50.

This system is a combination of the GL-11 General Ledger and the GP-11 Accountant's Payroll systems. CW-11 allows the user to post general ledger entries and payroll checks in the same posting session. Other user-oriented features include:

- A financial statement generator that allows many types of user-designed financial statements to be produced for any date range

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- Payroll information stored by employee for quarterly reports and W-2s
- Automatic recurring entries based on constant dollar amounts or percentages of account balances
- An audit trail for all entries provided by transaction journals
- A detail posting collapse feature that does not hinder the ability to make prior-period adjustments or to obtain prior-period financial statements
- A spreadsheet interface for detailed financial analysis
- An unlimited number of clients with different charts of accounts and financial statements allowed in the same system
- A password security system
- Interfaces to AP-11 Accounts Payable, AR-11 Accounts Receivable, and FA-11 Fixed Assets systems; other complementary products include the CN-11 Job Cost, OE-11 Order Entry, and IC-11 Inventory Control systems

CW-11's financial statements include multiple balance sheets and income statements and a statement of changes, ratio and asset analyses, disclaimer letters, and many other user-defined financial statements. Reports include a chart of accounts listing, general ledger detail, trial balances, recurring allocation and standard journal listings, and user-designed quarterly reports and W-2s.

The GL-11 and GP-11 user's guides include information for the office manager, the terminal operator, and the application supervisor. The reference manuals provide information on installation procedures, program flows, and data formats for the system manager and programmers.

A version of this product is available for the A-to-Z system.

A version of this product is available for the VAX computer.

Price: \$2800 - \$11,000

Contact: Sales Department
(806) 792-3785

COMPU-SHARE, INC.
3824 50th Street
Lubbock, TX 79413

DDP APS (Accounts Payable System)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Accounts payable • Billing • Financial analysis

APS, a comprehensive, menu-oriented, easy-to-operate, easy-to-learn package, operates on a single- or a multicompany basis. That allows APS to be used in a time-sharing environment, while maintaining the integrity of each company's file.

APS allows you to take a percentage or a dollar discount; offers automatic control of discounts-due dates, preediting of amounts to be paid automatically, and automatic preparation of checks and vouchers; allows open invoices to be aged by either invoice date or due date; allows you to write manual checks and enter the data to produce a check register and the expense distribution; and interfaces with the DDP Purchasing Control and General Ledger modules.

APS provides the following reports: check register, checks, edit listings, batch reports on input, distribution by vendor, aged trial balance, cash requirement, and distribution by G/L amount.

A version of this product is available for the VAX computer.

Price: \$795 - \$3500

Contact: Gary L. Grierson
(513) 236-7072

DAYTON DATA PROCESSING, INC.

60 Heid Avenue

Dayton, OH 45404

DDP ICSF (Inventory Control System)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Distribution • Inventory

This comprehensive menu-oriented, easy-to-operate, easy-to-learn system operates on a single- or a multicompany basis. That allows the Inventory Control System to be used in a time-sharing environment, while maintaining the integrity of each company's files. This system is of special interest to companies dealing in food, meat, poultry, fish, paper, tobacco, candy, and chemicals.

The system manages inquiry, product sales, on order, returns, counts, receipt, restocking, price book, and out of stock by customer; offers 26 selling prices for each item; and provides truck load control — case/pack and weight/size/average. ICSF provides the following reports: product movement, stock receipt analysis, daily inventory adjustment, daily stock receipts, daily undershipped, daily lost profit, low stock, vendor list, on-order list, inventory status, product list, customer price list, and price changes.

A version of this product is available for the VAX computer.

Price: \$795 - \$3500

Contact: Gary L. Grierson
(513) 236-7072

DAYTON DATA PROCESSING, INC.

60 Heid Avenue

Dayton, OH 45404

DDP OEIF (Order Entry/Invoicing)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Billing • Distribution • Order entry
• Sales analysis

This comprehensive order entry, invoicing, and sales analysis system operates with the Inventory Control System (ICSF) and the Accounts Receivable System (PAR). Menu orientation makes this system easy to learn and simple to use. OEIF operates on either a single- or a multicompany basis and therefore can be used in a time-sharing environment, while maintaining the integrity of each company's files. This system is of special interest to companies dealing in food, meat, poultry, fish, paper, and tobacco/candy.

OEIF features on-line credit checks and product availability check at entry time; 26 price schedules for each item; automatic invoicing, using automatic pricing, special pricing, and random weight; standard or 1-time messages; a leaker allowance that may be passed to retail accounts; drop charges based on minimum tonnage by customer; warehouse pick lists produced by warehouse slot number, by customer number, by truck, or by route; load sheets indicating the cubic and tonnage capacity of the truck and whether multiple trucks are needed; and sales analysis by territory, account, or chain.

A version of this product is available for the VAX computer.

Price: \$1595 - \$6995

Contact: Gary L. Grierson
(513) 236-7072

DAYTON DATA PROCESSING, INC.
60 Heid Avenue
Dayton, OH 45404

DDP PAR (Accounts Receivable)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Accounts receivable • Billing • Distribution
• Wholesale

This comprehensive, menu-oriented, easy-to-operate, easy-to-learn package operates on either a single- or a multicompany basis. That allows PAR to be used in a time-sharing environment, while maintaining the integrity of each company's file.

This package applies cash receipts on either a balance-forward or an open-item basis; establishes customer buying trends, credit history, and payment records; offers optional dunning and/or promotional messages; prints a detailed customer ledger showing activity for the calendar year; and allows a company to operate on a 12-month basis or 13 4-week accounting periods.

PAR can forecast cash receipts based on a moving average collection period for each customer.

Reports on demand include master file list, A/R aging, unearned discount, potential credit problems, sales journal, statements, customer ledger, cash forecasts, cash receipt journal, credit memo journal, and credit status.

A version of this product is available for the VAX computer.

Price: \$795 – \$3500

Contact: Gary L. Grierson
(513) 236-7072

DAYTON DATA PROCESSING, INC.
60 Heid Avenue
Dayton, OH 45404

DDP PAS (General Ledger)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Cost accounting • Financial analysis
• General ledger

This series of interactive programs for accountants and companies demanding complete financial control operates on either a single- or a multiclient basis. That allows PAS to be used in a time-sharing environment, while maintaining the integrity of each client's file. Menu orientation makes this system easy to learn and simple to use.

PAS flexibility allows the user to define 12 or 13 accounting periods and to use any numbering scheme that does not exceed six digits. PAS offers personalized report formats and titling, with reports printed on 8½" x 11" paper; prints detailed or consolidated reports; permits profit center accounting with automatic consolidations; and provides the capability to compare budgets and/or the previous month's or year's figures.

PAS provides nine supporting journals; eight subledgers; up to eight management reports for each profit center, in any of six formats; general ledgers; trial balance; and edit reports.

A version of this product is available for the VAX computer.

Price: \$795 – \$3500

Contact: Gary L. Grierson
(513) 236-7072

DAYTON DATA PROCESSING, INC.
60 Heid Avenue
Dayton, OH 45404

DDP PAY (Payroll System)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Payroll • Personnel

This comprehensive menu-driven payroll package operates on either a single- or a multiclient basis. PAY can be used in a time-sharing environment, while maintaining the integrity of each file. PAY interfaces to DDP's PAS, General Ledger, and Job Cost System. Both salaried and hourly employees may be processed on a weekly, biweekly, semimonthly, or monthly basis. Ten types of hours may be entered with 10 corresponding rates for each type of hours. The system accepts tips, meals, bonus, commission, and other pay dollars. The normal check-writing and federal/state tax-reporting functions are provided with year-to-date and quarter-to-date registers, payroll journals, earnings, and labor distribution reports. Job information can be obtained through DDP's Job Cost System. That capability serves manufacturing, tool and die, job shop, and construction firms.

A version of this product is available for the VAX computer.

Price: \$795 - \$5500

Contact: Gary L. Grierson

(513) 236-7072

DAYTON DATA PROCESSING, INC.

60 Heid Avenue

Dayton, OH 45404

DDP PCSF (Purchasing Control System)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Distribution • Inventory • Purchasing
• Warehousing

This comprehensive, menu-oriented, easy-to-operate, easy-to-learn system operates on either a single- or a multicompany basis and therefore can be used in a time-sharing environment, while maintaining the integrity of each company's files. This system is of special interest to companies dealing in food, meat, fish, poultry, paper, tobacco/candy, and chemicals.

The purchasing system tracks inventory and noninventory items on order from suppliers. As purchase orders are entered, the program automatically produces the purchase order and simultaneously updates the inventory quantity on order. Management can inquire into the open file to determine what items are on order, with whom, the quantity on order, and the delivery date.

PCSF provides the following reports: purchase order receiving; purchase requirements; open purchase order; product listing; vendor/product listing; vendor history — TDY purchase, amount, and cost; daily lost income; product movement analysis — 4-week period; purchasing recap; stock receipt analysis; and low-stock report.

A version of this product is available for the VAX computer.

Price: \$795 – \$1500

Contact: Gary L. Grierson
(513) 236-7072

DAYTON DATA PROCESSING, INC.
60 Heid Avenue
Dayton, OH 45404

DIBS-11/CTS-300, Version 1.1

Operating System: CTS-300, RSTS

Keywords: • General ledger • Inventory • Order entry
• Payroll

Distribution media: RK07, RL01, RL02.

This multiuser general accounting software package, written in DIBOL to run under the RSTS/E and CTS-300 operating systems, is comprised of six modules: Order Entry/Invoicing, Inventory Management, General Ledger, Accounts Receivable, Accounts Payable, and Payroll. The modules can be used individually (except Order Entry, which requires DIBS-11 Accounts Receivable) or as an integrated system. Each module can be integrated with the rest of the system for both data flow and/or data input verification.

DIBS-11 is sold in source code to enable the user to tailor the product to vertical markets. A thorough understanding of accounting and programming in DIBOL is highly recommended for those who wish to modify the DIBS-11 software.

Refer to SPD #12.34.02 when requesting further information on this product from your local DIGITAL sales office.

Price: \$4025/module – \$17,200

Contact: Don Hedman, Product Manager
(603) 884-6144

DIGITAL EQUIPMENT CORP.
Continental Boulevard
Merrimack, NH 03054

DPS/31 General Ledger

Operating System: RT-11

Keywords: • Decision support • Financial analysis
• General ledger • Office systems

These highly flexible programs handle the general accounting requirements of almost any business. This product includes complete chart of accounts file-maintenance (add, change, delete, list). DPS/31 allows interactive entry and editing of general ledger transactions, prints a general ledger transaction register, and automatically posts new transactions to a main general ledger year-to-date transaction

file. The system also prints a general ledger trial balance on request and financial statements (profit and loss, balance sheet, and supporting schedules) to a user-defined format. DPS/31 can receive input through an automatic interface from the DPS/33 Accounts Payable module, if desired.

Documentation includes a complete step-by-step installation and instruction manual with detailed program descriptions, sample program runs, and sample printouts.

This product is supported nationally (U.S.A.). The license fee includes the first year of software maintenance, updates, and support.

Running this product requires the DPS/99 Systems Interface software module (\$695).

Price: \$1595

Contact: James L. Lawson, Senior Analyst

(305) 647-6739

NATIONAL REAL ESTATE EXCHANGE, INC.

NRE Systems Division, P.O. Box 475

Maitland, FL 32751

DPS/33 Accounts Payable

Operating System: RT-11

Keywords: • Accounts payable • Decision support
• Financial analysis • Office systems

This accrual system with complete vendor file maintenance (add, change, delete, list) allows interactive entry and editing of new payables, including credits and prepaids. The system also prints an accounts payable voucher register and an accounts payable trial balance on request; a cash requirements report for any specified due date; and a report on checks written prior to paying. Payment of open items may be by deferral or selection. DPS/33 interfaces with DPS/31 General Ledger automatically, if desired.

Documentation includes a complete step-by-step installation and instruction manual with detailed program descriptions, sample program runs, and sample printouts.

This product is supported nationally (U.S.A.). The license fee includes the first year of software maintenance, updates, and support.

Running this product requires the DPS/99 Systems Interface software module (\$695).

Price: \$1595

Contact: James L. Lawson, Senior Analyst
(305) 647-6739

NATIONAL REAL ESTATE EXCHANGE, INC.
NRE Systems Division, P.O. Box 475
Maitland, FL 32751

Due Date Monitoring

Operating System: CTS-300, RSX, RT-11

Keywords: • Management • Office systems • Report writer
• Scheduling

This system is designed to enable an accounting firm to track engagements. The system provides a wide variety of free-formatted reports showing which engagements are coming due for any given client or responsible employee.

Highlights of this system are reports by office, client, or engagement of employee designation; user-definable sort codes; starting-date specification; estimated completion time; responsible-party designation; and automatic or user-defined report-formatting capability.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Bob Sprowls
(904) 434-2685

DIGITAL SYSTEMS, A DIV. OF UCCEL
114 E. Gregory Street
Pensacola, FL 32501

FA-11 (Fixed Assets)

Operating System: Micro/RSTS, Micro/RSX, RSTS

Keywords: • Financial analysis • Fixed assets • Taxes

Distribution media: 800/1600/6250 bpi magnetic tape, RK07, RL02, RM03, RX50.

This system features detailed depreciation calculations for all assets for any depreciation period specified by the user. FA-11 depreciation methods include ACRS, ACRSL, ACRS for low-income housing; straight line, 200%, 150%, and 125% declining-balance methods; sum-of-the-years' digits; and units of production. Other features include:

- User-defined asset codes with up to 15 characters and 3 user-defined fields for additional asset information
- A book, tax, or other (for state use) depreciation ledger or up to all three ledgers for each asset
- Reports for an unlimited date range and user-defined property tax and insurance reports

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- Bonus depreciation, added-value, and added-life calculations
- Investment tax credit, including the 50% of ITC reduction for depreciation, and investment tax credit recapture calculations
- Asset history kept for each asset, including maintenance expenses, location changes, and retirement information
- Projected depreciation for up to five methods, with depreciation method changes
- Optional automatic change to straight-line from declining-balance methods
- An audit trail for all entries provided by transaction journals and change logs
- On-line help text to provide additional information
- A password security system
- Interfaces to GL-11 General Ledger; other complementary products includes AP-11 Accounts Payable, AR-11 Accounts Receivable, PY-11 Payroll, CN-11 Job Cost, OE-11 Order Entry, and IC-11 Inventory Control systems

FA-11's reports include depreciation schedules, asset listings, a book/tax comparison, projected depreciation, asset history, retirement reports, investment credit and investment credit recapture reports, and property tax and insurance reports.

The FA-11 user's guide includes information for the office manager, the terminal operator, and the application supervisor. The reference manual provides information on installation procedures, program flows, and data formats for the system manager and programmers.

A version of this product is available for the A-to-Z system.

A version of this product is available for the VAX computer.

Price: \$1200 - \$6500

Contact: Sales Department
(806) 792-3785

COMPU-SHARE, INC.
3824 50th Street
Lubbock, TX 79413

FACS — Accounts Payable

Operating System: RSTS

Keywords: • Accounts payable • Forecasting • Report writer

This on-line fully interactive accounts payable system is functioning in such industries as construction, agriculture, newspapers, food distribution, and financial services. The package features direct interface to the FACS G/L and Job Costing; direct interface with the subcontractors reporting system and the purchase order system; daily invoice input and selective payment control; distribution of invoices

to multiple jobs, departments, and cost description codes; date of discounts and daily monitoring of future discounts to be taken; cash requirements forecasting; and immediate supplier status lookup.

Reporting features include check and optional overflow remittance advice printing; an open-accounts payable report; reporting and payment of accounts payable by supplier, job, department, discount date, or any other desired option; monthly and annual accounts payable ledgers; and user-defined reports for history of purchases and payments to suppliers. All reports can be printed to the screen or to a hard-copy device.

A version of this product is available for the VAX computer.

Price: \$1500

Contact: Steven L. Buth
(509) 624-4248

SPOKANE COMPUTER SERVICES, INC.
West 915 Second Avenue
Spokane, WA 99204

FACS — Accounts Receivable and Sales Analysis

Operating System: RSTS

Keywords: • Accounts receivable • Audit • Report writer
• Sales analysis

This package for both balance-forward and open-item accounts receivable customers operates stand alone or with the FACS General Ledger system.

Features of the FACS Accounts Receivable system include:

- Direct interface to FACS Inventory and Order Entry for complete A/R and sales analysis reporting
- Eight user-defined fields used in conjunction with sales analysis
- User-defined product codes and period sales analysis, such as month to month, this month this year compared to this month last year
- Automatic service charge calculation
- Screen display for customer inquiry
- Invoices, memos, adjustments, and payments that are entered into the system, using the same input screen
- Name and address files that include customer SIC code, Dun and Bradstreet number, banking relationship, and service charge option

Reporting features include user-defined reports for both the Product Master and Customer Master file as well as a user-defined report for all receivable transactions; customized invoices and statements, with custom messages printed for special statements; aged trial balance

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available for all customers, a range of customers, or by customer type; and user-defined sales analysis reports. All reports can be printed to the screen or to a hard-copy device.

A version of this product is available for the VAX computer.

Price: \$3500

Contact: Steven L. Buth

(509) 624-4248

SPOKANE COMPUTER SERVICES, INC.

West 915 Second Avenue

Spokane, WA 99204

FACS — Fixed Asset Management

Operating System: RSTS

Keywords: • Fixed assets • Forecasting • Report writer
• Spreadsheets

This accounting system features direct interface to FACS G/L; four depreciation schedules for each asset; ability to trace by serial number each asset's location by state and to track date in service, date acquired, date sold, and date retired; 10 depreciation methods, including user-defined calculations; automatic switch method computations; ability to track acquisition cost, salvage value, fair market value, appraised value, insurance value, and book value; ability to track first-year bonus or expense costs; full ITC calculations; and depreciation forecasting for single assets, groups of assets, or complete schedules.

Reporting features include a depreciation worksheet; user-defined fixed asset, depreciation, and general ledger reports; monthly and annual depreciation schedules; a spreadsheet expense report for all four depreciation schedules; a schedule for untracked assets; and an amortization schedule. All reports can be printed to the screen or to a hard-copy device.

A version of this product is available for the VAX computer.

Price: \$2500

Contact: Steven L. Buth

(509) 624-4248

SPOKANE COMPUTER SERVICES, INC.

West 915 Second Avenue

Spokane, WA 99204

FACS — General Ledger

Operating System: RSTS

Keywords: • General ledger • Report writer

This package offers flexible financial reporting to a wide variety of end users. Through a system set-up routine, users choose those features that fit their requirements. The system features direct interface with FACS Payroll, FACS A/P, FACS Job Costing, and FACS Fixed Assets; subsidiary balances for each G/L account; a balance-to-date system that allows subsidiary balances to be carried across fiscal years; branch accounting with consolidation; automatic verification for G/L account, subaccount, job number, department number, and cost description number; out-of-balance protection; automatic journal entries; batch input controls; and integration to financial modeling for "smart budgeting" and other forecasting requirements.

Reporting features include a generalized report writer that allows users to define and store report types sorted, selected, subtotaled, and totaled on any data field in the G/L; a worksheet with optional trial balance; a G/L transaction distribution and user-definable transaction summary; a user-definable balance-to-date report, as well as subsidiary ledger, budget, and trial balance reports; transaction journals; posting proofs; and general ledger and financial statements. All reports can be printed to the screen or to a hard-copy device.

A version of this product is available for the VAX computer.

Price: \$1500

Contact: Steven L. Buth
(509) 624-4248

SPOKANE COMPUTER SERVICES, INC.
West 915 Second Avenue
Spokane, WA 99204

FACS — Payroll

Operating System: RSTS

Keywords: • Payroll • Report writer

This fully functional payroll reporting system is operating in a variety of diverse industries, including construction, labor-intensive agricultural environments, wholesale/retail distribution, and restaurants. The system features:

- Complete integration to the FACS G/L and FACS Job Costing
- Automatic entry of employer and employee accruals in G/L
- Paychecks for hourly, piecework, and salaried employees in the same payroll run
- Daily or periodic input of employees time cards
- Time card input distributed by multiple jobs, departments, and payroll cost descriptions
- Automatic earnings and deductions (FICA, federal, and state withholding, unemployment, workmen's compensation, industrial insurance, and so on)
- Multiple state income tax withholding capabilities

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- User-defined earnings and additional deduction codes
- Union information
- Employee profile information

Reporting features include payroll entry proof reports, check calculation and printing, employer's tax deposit report and quarterly report for the employment security department, general ledger payroll distribution report, certified payrolls, union reports, and W-2 forms. All reports can be printed to the screen or to a hard-copy device.

A version of this product is available for the VAX computer.

Price: \$2000

Contact: Steven L. Buth
(509) 624-4248

SPOKANE COMPUTER SERVICES, INC.
West 915 Second Avenue
Spokane, WA 99204

FIFO: FIFO Inventory

Operating System: RSTS, RSX, RT-11

Keywords: • Billing • Inventory • Order entry
• Purchasing

This first-in, first-out inventory system with open-item payable, open-item receivable, general ledger, payable check writing, order entry, purchasing, and manufacturing uses a bill-of-materials file to produce work orders and picking lists. Order entry and purchasing can be done for both stock and nonstock items. The actual and estimated costs of all inventory items are tracked throughout the system. The cost compiler adjusts the inventory, general ledger, and WIP when estimate costs become actual. This system has report formats, on-line queries, and multiuser capabilities and is screen formatted for VT100-compatible terminals.

Price: \$20,000

Contact: Marvin Gogal, Branch Manager
(403) 464-7121

DATA KEY LTD.
2107 — 87 Avenue
Edmonton, Alberta T6P 1L5
Canada

FIPS (Financial Information Processing System)

Operating System: RSTS

Keywords: • Accounts receivable • Cost accounting
• General ledger • Payroll

FIPS provides completely integrated accounting for accounts payable, accounts receivable, payroll, project cost, and general ledger applications. The G/L module includes overhead budget analysis and the ability to do consolidations. The system allows the user to design any number and types of financial statements. The project cost system provides the ability to report information in summary or in detail form with budget comparisons on all activities within a project. G/L reporting provides percentage comparisons, current month, and year-to-date budget comparisons.

Installation, support, and ongoing maintenance are available.

Price: \$6000 - \$14,000

Contact: Michael H. Seeb

(303) 771-8930

COMPUTER RESOURCES CORP.

5680 S. Syracuse Circle, Suite 118

Englewood, CO 80111

Fiscal Accounting

Operating System: RSTS

Keywords: • Accounts payable • Accounts receivable
• Education • General ledger

Memory required: 28K.

This fully accrued and encumbered system of accounting consists of two subsystems — accounts payable and general ledger reporting. The accounts payable package includes the normal accounts payable functions; the general ledger package includes the printing of the general ledger and various forms of budget and expenditure reports.

The Fiscal Accounting package, primarily a conversion of a similar package developed for an IBM 1401, is therefore card input-oriented. However, that is the only use of cards; the input programs could easily be modified for terminal input. All sorting and data manipulation are done on the disks, and output is to either the disks or the line printer. The equipment necessary for the cards is a keypunch and a punched-card reader for the PDP-11. The package is written in the RSTS V4A-12 BASIC-PLUS language.

A third package, Payroll, can be used with the other packages. The payroll package, DECUS number 11-33, is based on the same system of accounting. The entire system is based on double-entry bookkeeping. The Fiscal Accounting packages, however, stand alone without the payroll package.

The accounting system is based on a 16-digit general ledger account number. The account number contains, in a more concise form, most of the information recommended by the *Federal Handbook II* for school fiscal accounting. DECUS number 11-160.

Note: One DECTape is documentation.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Fixed Asset Accounting

Operating System: CTS-300

Keywords: • Calculation aids • Fixed assets
• Property management

This comprehensive free-standing module of programs enables you to keep an inventory of your property items and to calculate depreciation for those items by the following depreciation methods: straight line, double-declining balance, 150% declining balance, and a sum of the years' digits. In addition, items that are not to be depreciated may be kept in the system.

Additions (capital improvements) or deletions (partial sales or group items) can be shown as separate detail items with asset numbers and can have different depreciation methods or different lives (can be partial-year lives).

New assets are entered monthly or at the end of the fiscal year. Depreciation for the current fiscal year is calculated after posting new assets. A fixed-assets register is printed for those new items, followed by a departmental summary showing the amount of depreciation to be journalized for each period in the current fiscal year (13-period fiscal years are supported, if desired).

At the close of the fiscal year, after all new assets have been processed, depreciation is calculated for the next fiscal year. A fixed-assets register and departmental summaries are printed. Items that should be reclassified from accelerated depreciation to straight line are flagged on the fixed-assets register for management review.

Price: \$1500 - \$2000

Contact: Robert J. Steinis
(203) 378-6010

FOOD DISTRIBUTOR SYSTEMS, INC.
959 Main Street
Stratford, CT 06497

Fixed Asset Depreciation

Operating System: CTS-300, RSTS, UNIX* (Version 7)

Keywords: • Financial analysis • Financial planning
• Fixed assets • Taxes

This system calculates depreciation for each asset rapidly and accurately. Depreciation is calculated for both book and tax values, so that assets may be recorded for maximum tax benefit (ACRS and TEFRA), as well as for the greatest impact on financial statements.

The system incorporates both the new ACRS and TEFRA methods and the traditional depreciation methods. Totals can be stored for groups and classes, so that assets can be organized by branch, department, and so forth.

The system includes required government reports, such as depreciation schedule, schedule of investment tax credit, recapture of ITC, as well as the book tax comparison schedule. Separate fields are stored for purchase price and basis, if they are different.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$2000 - \$3000

Contact: Marc Alexander, National Sales Manager
(503) 641-8100

ALPINE DATASYSTEMS, INC.

8043 SW Cirrus Drive

Beaverton, OR 97005

Fixed Asset Depreciation

Operating System: RSTS

Keywords: • Financial analysis • Fixed assets • Report writer
• Taxes

This easy-to-use on-line system handles five depreciation methods: straight line, declining balance, double-declining balance, sum-of-years digits, and ACRS. The system includes 1983 tax law changes, calculates investment tax credits and investment tax credit recapture of relevant assets, creates monthly journal entries that stand alone or interface to General Ledger, maintains both book and tax depreciation, allows automatic conversion from accelerated depreciation methods to straight line, and handles full or partial disposals.

A report writer produces user-designed reports, as well as year-to-date fixed asset analysis, detailed reports by location, asset traffic report, insurance value report, annual depreciation report for income tax purposes, investment tax report, investment tax recapture report, and yearly disposal report.

The table-driven software allows multiple operators, entry validation, and 2-word password security.

A version of this product is available for the VAX computer.

Price: \$3000 - \$6000

Contact: Linda M. Wingfield, Software Product Manager
(919) 766-0571

RESOURCE SYSTEMS CORP.

P.O. Box 1546

Clemmons, NC 27012

Fixed Assets

Operating System: RSTS

Keywords: • Financial analysis • Fixed assets • Taxes

The ADD Fixed Assets package is an integral part of the ADD Financial Management package. The package automatically computes depreciation, using any of the standard methods — straight line, double-declining balance, 150% declining, and the new ACRS formulas.

Assets are grouped and reports can be generated by division, company, location, ledger code, depreciation method, and more. In addition, the system can automatically generate journal entries on a monthly or a yearly basis in a mode suitable for direct automatic entry into the ADD General Ledger package.

A version of this product is available for the VAX computer.

Price: \$1500 — \$4000

Contact: Bruce A. Bott, President
(201) 584-4026

ADVANCED DIGITAL DATA, INC.

354 Route 206

Flanders, NJ 07836

Fixed Assets

Operating System: RSTS

Keywords: • Data dictionary • Fixed assets

This system provides all the forms, programs, and procedures necessary to perform the fixed-assets function. Menu orientation makes this system easy to learn and simple to use. With the system's effective error reporting and interactive editing of input information, most errors can be identified and corrected before reaching the main system.

Reviewed annually by outside accountants, this system has a complete, easy-to-follow audit trail and is continually kept up to date. Comprehensive reporting includes depreciation comparisons and forecasts; registers for acquisitions, disposals, and transfers; ledger depreciation distribution reports; and numerous depreciation reports.

The program may be run stand alone or may be interfaced with a companion general ledger system. The documentation includes detailed operating procedures, flow diagrams, file layouts, report samples, program operating instructions, and a dictionary of data and terms used in the system. Complete support and training are available.

A version of this product is available for the VAX computer.

Price: \$2500 - \$7500

Contact: Sharen Robinson, Sales Assistant
(219) 935-5121

PLYCOM SERVICES, INC.

P.O. Box 160

Plymouth, IN 46563

FSG (Financial Statement Generator)

Operating System: CTS-300, RSX, RT-11

Keywords: • Forms management • Report writer

FSG is designed to accommodate the complex, unusual reporting requirements of today's accountant. The FSG is an extension of the free-formatting capabilities that exist in the Client Accounting System.

True free-formatting capability allows the user to design an entire report on a line-by-line basis. Data elements and the positioning, printing, and numerical treatment of each element are user defined.

Some highlights of the Financial Statement Generator are line-by-line report definition; line math capabilities (add, subtract, multiply, divide); unlimited totaling levels; use of constants and percentages for calculations, projections, allocations, and so on; horizontal and vertical spacing; floating "\$", ",", "()", and so on; nonnumerical printing of units; multiaccount positioning for each line; multidivisor specifications; and multiclient use of established formats.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Bob Sprowls
(904) 434-2685

DIGITAL SYSTEMS, A DIV. OF UCCEL

114 E. Gregory Street
Pensacola, FL 32501

General Ledger

Operating System: RSTS

Keywords: • Financial analysis • General ledger

The ADD General Ledger system allows the user to define a chart of accounts and financial reports. The system is automatically updated by other applications packages from ADD, such as Accounts Payable, Payroll, Accounts Receivable, and Fixed Assets.

The "compare" function allows the user to contrast any factors desired — for example, "current month to budget," "this month to last year," or "year to date to last year to date." In addition to financial reports, the system produces worksheets, trial balance, journal of entries, and a detailed general ledger.

A version of this product is available for the VAX computer.

Price: \$2000 - \$6000

Contact: Bruce A. Bott, President
(201) 584-4026

ADVANCED DIGITAL DATA, INC.
354 Route 206
Flanders, NJ 07836

General Ledger

Operating System: DSM

Keywords: • General ledger • Health care

This product is written in ANSI standard MUMPS and runs on a wide range of DIGITAL equipment, including micros, minis, and VAXs. This table-driven product provides multicompany general ledger capabilities and produces variable-format income statements, balance sheets, journals, accountant's worksheets, budget analysis statements, year-to-year comparisons, and so forth.

A version of this product is available for the VAX computer.

Price: \$2415 - \$13,282

Contact: Richard R. Brink
(214) 422-1022

ANTRIM CORP.
101 E. Park Boulevard, Suite 855
Plano, TX 75074

General Ledger

Operating System: IAS, RSTS, RSX, RT-11

Keywords: • General ledger

This menu-driven system has add, change, delete, and list modes and includes a report writer feature and chart of accounts maintenance. Comparatives or selected statistics can be reported monthly, weekly, or daily. Other features include 7-digit account numbers, the last three of which are subaccount numbers used for departments, profit centers, or different companies; recurring-entry registers; transactions compressions; automatic distributors; counterbalancing; and user-defined accounting periods. Running balances are kept and displayed for all entered transactions. General Ledger interacts with other Armadale business packages.

A version of this product is available for the VAX computer.

Price: \$1500 - \$3000

Contact: Michael G. Sifton
(416) 477-8000

ARMADALE SYSTEMS INC.
Toronto Buttonville Airport
Markham, Ontario L3P 3J9
Canada

General Ledger

Operating System: RSTS

Keywords: • Financial analysis • General ledger
• Menu handlers • Project management

This comprehensive, flexible system provides current information on your financial position, gives you double-entry bookkeeping procedures, standard accounting reports, recurring journal entries, and flexible methods for viewing important information. You can enter and post journal entries manually, create and reuse recurring journal entries, or rely on automatic updates from other modules. Full financial reporting is available from menu selections, with variations in format based on parameters you choose.

Price: \$5000 - \$20,000

Contact: Chuck Sargent, Software Sales Representative
(714) 970-1515

DATA PROCESSING DESIGN, INC.
1400 North Brasher
Anaheim, CA 92807

General Ledger

Operating System: CTS-300, RSTS, RT-11

Keywords: • Financial management • General ledger
• Report writer

Distribution media: magnetic tape, RK07, RL02.

This package is based on a number of interrelated master files, current and historical transaction files, and an ID center file, which is used to support the multicompany/subsidiary concept. Master files, comprising the chart of accounts, store current year, last year, budget, and modeling balances as well as user-defined flags and codes, which permit flexible financial reporting. Transaction files retain all posting information and are used in both reports and screen inquiries. The ID center file is used to define the structure of the account number, such as company, division, or department, for a particular organization. The package features the handling of multiple companies, user-defined accounting periods, allowance of early

entries and prior-period adjustments, supporting schedules, budgeting and modeling, financial reporting flexibility, allocation transactions, handling of recurring journal entries, comprehensive financial reporting, and the ability to interface with other accounting systems and store nonfinancial data.

A version of this product is available for the VAX computer.

Price: \$2000 - \$15,000

Contact: Tom Muskiluke
(519) 893-4200

DIGITAL BUSINESS COMPUTERS

133 Manitou Drive

Kitchener, Ontario N2C 1L4

Canada

General Ledger

Operating System: CTS-300

Keywords: • Financial analysis • General ledger

This comprehensive free-standing module of programs provides automatic financial reporting by presenting current and comparative financial information. Financial statements may be prepared on a departmental, consolidated, summary, or comparative basis. As an option, the General Ledger system may be automatically interfaced into the companion Accounts Payable system.

The system features single-source direct entry through CRTs, tutorial prompting for simplified operation, direct master file inquiry, and on-demand reporting. Through the use of formatting codes, each user can define the desired format of each financial report — for example, profit and loss statement, balance sheet, and supporting schedules.

General Ledger posting is accomplished by interactive CRT entry of account number (with automatic verification and display of account description), date, debit or credit amount, source (a 3-character abbreviation for the document or system from which the transaction originated), and up to 30 characters for detailed reference.

The Chart of Accounts record contains a 1-digit company number, a 4-digit account number, a 3-digit subaccount number, an account description, three special codes for formatting the financial statements, and up to 13 periods of budgeting and last-year comparative information. The 3-digit subaccount may be used to designate profit center.

The financial statements may be printed for any specified period (starting and ending dates) and for selected or all profit centers. Optionally, budgets may be shown on the profit and loss statement and last-year comparatives on the balance sheet. Budgets or comparatives may also be optionally shown on the supporting schedules.

Price: \$1500 - \$2000

Contact: Robert J. Steinis
(203) 378-6010

FOOD DISTRIBUTOR SYSTEMS, INC.
959 Main Street
Stratford, CT 06497

General Ledger

Operating System: ULTRIX-11, UNIX* (System III, System V)

Keywords: • General ledger

This fully integrated on-line multiuser UNIX*-based general ledger system provides budget analysis and all standard G/L reports, including balance sheet, profit and loss statement, detail trial balance, summary trial balance, journals, schedules, budget comparisons, and cash flow statements. Manual entries allow for adjustments, budgets, and beginning balances. The system supports "memo" and "self-reversing" transactions. The user may define virtually any accounting period, and reports may be printed for any accounting period (current or past) at any time. Multicompany and multidivision support allows printing of either separate or consolidated statements. "Cash" and "accrual" accounting methods are supported simultaneously.

Also available are a print key providing hard copy of any screen image through the system printer, true multiuser design for concurrent program use, built-in multicompany/multidivision support, and user-assigned predefined company/division or user-allowed option to specify company/division. Timely information is assured through the automatic updating of G/L from all modules.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Laurel McDaniel
(312) 332-3242

NEAL NELSON & ASSOCIATES
185 N. Wabash, Suite 1908
Chicago, IL 60601

General Ledger

Operating System: RSTS

Keywords: • Data dictionary • Financial analysis
• General ledger

This system provides all the forms, programs, and procedures necessary to perform the general ledger and financial-reporting functions. Menu orientation makes this system easy to learn and simple to use. With the system's effective error reporting and interactive editing of input information, most errors can be identified and corrected before reaching the main system.

Reviewed annually by outside accountants, this system has a complete, easy-to-follow audit trail and is continually kept up to date. Comprehensive reporting includes trial balances, detail or summary activity listings, trial balances in 13-column worksheet format, transaction logs, historical and budget reports, and user-defined financial statements.

The program may be run stand alone or may be interfaced with companion payables, receivables, payroll, and fixed assets systems. The documentation includes detailed operating procedures, flow diagrams, file layouts, report samples, program operating instructions, and a dictionary of data and terms used in the system. Complete support and training are available.

A version of this product is available for the VAX computer.

Price: \$2500 - \$7500

Contact: Sharen Robinson, Sales Assistant
(219) 935-5121

PLYCOM SERVICES, INC.
P.O. Box 160
Plymouth, IN 46563

General Ledger

Operating System: CTS-300, RSTS, RT-11

Keywords: • Financial analysis • Financial management
• Financial planning • General ledger

This menu-driven system allows multiple users, 18-digit account numbers, and entry validation. General Ledger interfaces with other accounting modules, combines module journals to provide combined journals, reverses prior month's accruals, allows recurring journal entries, can look at two months simultaneously, provides a detail audit trail, produces auditor worksheets with current-year data, selectively prints and summarizes account activity, and facilitates the budget process.

An included report writer prints balance sheets and comparative balance sheets; year-to-date, comparative, and budget-to-actual income statements; trend analyses; spreadsheets; current and year-to-date cash-flow statements; and user-defined statements.

A version of this product is available for the VAX computer.

Price: \$3000 - \$6000

Contact: Robert G. Jackson
(919) 766-0571

RESOURCE SYSTEMS CORP.
4000 Clemmons Avenue, P.O. Box 1546
Clemmons, NC 27012

General Ledger

Operating System: RSTS

Keywords: • General ledger

This program offers a complete general ledger system.

A version of this product is available for the VAX computer.

Price: \$3500

Contact: Andrew Yasenchak
(201) 231-9400

UNITRONIX DATA SYSTEMS, INC.
50 County Line Road
Somerville, NJ 08876

General Ledger and Financial Reporting

Operating System: RSTS

Keywords: • General ledger

Memory required: 256KB and 20MB of disk storage. Distribution medium: 9-track 800/1600 bpi magnetic tape.

This system allows fast closing of books and decreases the closing cycle to hours from days or weeks with full audit trails and on-line data entry and inquiry. The features include flexible chart of accounts and budgeting, complete account management, recurring journal entries, automatic journal reversals, multicurrency or multiclient processing and reporting, and comparisons to previous years' posting to prior and future periods. Reports include balance sheet, income statement, general ledger for month, year to date for all or a single account, chart of accounts, budgets by department, and journal entries.

For nonusers of accounts payable systems, a check entry feature is available, which provides check registers and detail by general ledger accounts.

Our software warranty provides users with comprehensive support and training. Each turnkey system includes up to four hours' field training for each package, at no charge, during the first 30 days following installation. One user manual is provided with each software package. Additional copies are available.

The software, written in BASIC-PLUS, runs under RSTS/E on DIGITAL PDP-11 and compatible minicomputers. End-user, OEM, and software reseller licensing agreements are available.

Price: \$1495

Contact: Warren C. Nagler
(714) 997-8927

JADTEC, INC.
546 West Katella Avenue
Orange, CA 92667

GL-11 (General Ledger and Financial Reporting)

Operating System: Micro/RSTS, Micro/RXS, RSTS

Keywords: • Financial management • General ledger
• Report writer • Spreadsheets

Distribution media: 800/1600/6250 bpi magnetic tape, RK07, RL02, RM03, RX50.

This system features detailed ledgers allowing open-item posting and financial statements designed by the user through parameter files. Other user-oriented features include:

- User-defined account numbers with up to 15 characters and up to 13 user-defined accounting periods for any fiscal year
- Multiple input screen for journal entries
- Automatic recurring entries based on constant dollar amounts or constant percentages of account balances
- A detail posting collapse feature that does not hinder the ability to make prior-period adjustments or to obtain prior-period financial statements
- An audit trail for all entries provided by transaction journals and a spreadsheet interface for detailed financial analysis
- Budget and prior-year information for financial reporting
- Wildcard reporting for multiple companies and multidivision capabilities
- A password security system
- Interfaces to the AP-11 Accounts Payable, AR-11 Accounts Receivable, PY-11 Payroll, and FA-11 Fixed Assets; other complementary products include the CN-11 Job Cost, OE-11 Order Entry, and IC-11 Inventory Control systems

GL-11's financial statements include multiple balance sheets and income statements, a statement of changes, ratio and asset analyses, disclaimer letters, and many detail, trial balances, recurring allocation and standard journal listings, and transaction journals.

The GL-11 user's guide includes information for the office manager, the terminal operator, and the application supervisor. The reference manual provides information on installation procedures, program flows, and data formats for the system manager and programmers.

A version of this product is available for the A-to-Z system.

A version of this product is available for the VAX computer.

Price: \$1600 - \$7500

Contact: Sales Department
(806) 792-3785

COMPU-SHARE, INC.
3824 50th Street
Lubbock, TX 79413

G/L (General Ledger)

Operating System: RSTS

Keywords: • General ledger

This application includes the standard reporting functions associated with a financial system. Specifically, a trial balance, general ledger, balance sheet, gross profit report, and income statement are all provided with flexible formats. Provision is made for comparative reporting on budget and last-year amounts, in conjunction with individualized branch, department, and/or consolidated reporting. Transaction entry comes either through a document entry program or automatically from any other Data Key integrated application being used.

Price: \$3500

Contact: Marvin Gogal, Branch Manager
(403) 464-7121

DATA KEY LTD.
2107 - 87 Avenue
Edmonton, Alberta T6P 1L5
Canada

G/L (General Ledger)

Operating System: RSTS

Keywords: • Financial analysis • Financial planning
• General ledger

Distribution medium: 9-track magnetic tape.

94 Accounting

In this system, transactions are entered interactively, but the data base is updated in batches. A tight validation and approval process provides maximum control. Other features provide various levels of profit centers, the capability to enter next year's budgets before this year's closing, interactive displays of current information on any account, and a financial statement generator permitting a wide range of reports in many formats.

The same accounts may appear in different reports, using various levels of summation.

A version of this product is available for the VAX computer.

Price: \$12,000

Contact: Robert Brown
(902) 429-3175

DYMAXION RESEARCH LTD.
Box 1053, Armdale Station
Halifax, Nova Scotia B3L 4L5
Canada

G/L (General Ledger), MCBA, Inc.

Operating System: CTS-300, RSTS, RT-11

Keywords: • General ledger • Report writer

This package handles up to eight companies, allows multiple profit centers, and includes up to 13 accounting periods in a company's fiscal year; provides sequential numbering of all G/L reports; can maintain a chart of accounts; permits entry and editing of general journal transactions; maintains transaction detail for the entire year so that year-end detail reports can be printed; includes a comprehensive year-ending procedure and a security system; and interfaces with MCBA's Accounts Receivable, Accounts Payable, Payroll, Job Costing, and Fixed Assets and Depreciation packages. The package also prints the chart of accounts printout, general journal transaction register, detailed general ledger report, general ledger trial balance, general ledger source cross-reference, and financial statements that include flexible, user-defined formats.

A separate menu can optionally compress all transactions in the year-to-date file into one period-ending transaction for each period in each account as coded in the chart of accounts; create a sample set of year-to-date transactions to check the format of all financial statements; and display the amount of space remaining in all the major G/L files.

A version of this product is available for the VAX computer.

Price: \$2000 - \$3000

Contact: Sales Representative
(818) 957-2900

MCBA, INC.

2441 Honolulu Avenue
Montrose, CA 91020

GLS (General Ledger System)

Operating System: RSTS

Keywords: • Financial management • General ledger
• Report writer

This highly flexible interactive financial reporting system is designed for organizations requiring comprehensive financial control. The reports can be run daily, weekly, monthly, annually, or on any other user-defined time schedule. Reports can be detailed by company, division, department, or other desired responsibility center. GLS can accommodate a user-defined chart of accounts. The system audit trails are both extensive and complete. Unbalanced ledgers and journal entries are prevented by extensive edit checks throughout the system. GLS can also generate allocating, adjusting, and automatic reversing journal entries. Comparative reports can be produced, enabling the user to compare any past actual or budget accounting period with the current period in a clear, concise format. This module, available separately, is part of the White Hat Integrated Manufacturing Management Product.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Linda M. Dobias
(617) 933-3780

WHITE HAT SYSTEMS, INC.
331 Montvale Avenue
Woburn, MA 01801

Idaho Falls Payroll System

Operating System: RSTS

Keywords: • Education • General ledger • Payroll

Memory required: 28K.

The payroll package implemented by the Idaho Falls School System is part of a fully accrued and encumbered system of accounting. The package handles three types of employee payments: contract payments, time card payments, and payments for employees who earn a fixed amount a day.

The package includes master personnel file maintenance, payroll and deduction calculation, check writing, payroll journal, deduction registers, and automatic entry to the general ledger system. DECUS number 11-33.

Restrictions: Users' payroll requirements must resemble those of the Idaho Falls implementation.

Note: Card layouts, disk file layouts, and sample output and program descriptions are offered with the listing.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

IFAS (Interactive Financial Accounting System)

Operating System: RSTS

Keywords: • Accounts payable • Accounts receivable
• General ledger • Order entry

This comprehensive set of application modules for accounts receivable, accounts payable, financial reporting, and order entry/invoicing can be installed separately or combined with IMCS to form an integrated system. All functions in IFAS provide a high degree of data base security through extensive on-line edit checking, numerous accounting controls, and the use of audit trails, transaction registers, and balancing techniques. Detailed descriptions of the many capabilities of these systems are available upon request.

A version of this product is available for the VAX computer.

Price: \$4000 +

Contact: Kim Sheridan
(602) 323-1813

INTERACTIVE INFORMATION SYSTEMS, INC.
Rt. 8, Box 702L
Tucson, AZ 85748

Integrated Business Software

Operating System: CTS-300, RT-11, TSX-PLUS

Keywords: • Accounts payable • Accounts receivable
• General ledger • Inventory

Each business package — A/R, A/P, O/E, I/M, G/L, and PR — can function as a stand-alone module or as part of a complete integrated system, with activity in one system automatically updating all associated data in other systems. The order entry, invoicing, and inventory management modules make the system especially attractive to wholesalers, distributors, and small manufacturing firms.

Because of its well-structured, modular design, the system is extremely flexible and can function as a programming aid in designing other applications or in making customizations to the system itself.

The package is written in DBL.

A version of this product is available for the VAX computer.

Price: \$2000 – \$8000

Contact: Larry Triplett
(614) 826-7678

TRIAD DATA PROCESSING
36 E. Main Street
New Concord, OH 43762

InterAP™

Operating System: DSM

Keywords: • Accounts payable • Financial analysis

This complete on-line interactive accounts payable system interfaces with the InterGL General Ledger and Financial Reporting System or may stand alone. The flexible accounts payable structure allows the user to define chart of accounts, vendor types and files, payment-frequency schedule, bank accounts, discount accounting method, and fiscal periods.

After the user enters payables by entering the number and amount, the system assigns a voucher control number to each payable. The user selects the vendor from the files and enters the invoice number, invoice date, amount, discount terms, due date, descriptive comment, and expense distribution. If the payable has been paid, the user is prompted for bank, check number, and check date. Voiding of previously issued checks is also accomplished through the payables entry function. Once entered, a series of payables may be posted to the vendor ledger if the control figures balance with what has been entered.

On-line inquiries may be performed to determine the status of a vendor's account, payables, or checks. Selection is by vendor, voucher number or range, invoice number, date, check number, and/or a combination of the above. Detailed or summary information is displayed on the screen or printed in hard-copy form. A check-reconciliation module allows the user to reconcile bank statements and to keep track of outstanding or uncleared checks.

The user can produce an accounts payable aging from a specified date (accrual or only up to a given fiscal period) and a general ledger aged trial balance, which highlights possible inconsistencies in dating of payables.

The payment process is accomplished by producing a cash-requirements report, which shows the amount due. The user then designates which items are to be paid and whether the discount is to be taken. A summary of what has been queued for payment is produced, and the user may add to or delete from that list. The user then requests the system to produce checks. If the user has indicated that the checks are correct, a check (run) register is printed, and the files are updated. Items may also be paid manually, by entering the check number.

Available reports and inquiries include monthly check registers, settlement reports, agings and ledgers for individual vendors or vendor types, and short voucher inquiries.

A version of this product is available for the VAX computer.

Price: \$2500

Contact: Alexander J. Phillips, President
(201) 256-7633

INTERACTIVE SYSTEMS AND MANAGEMENT CORP.
1500 Cardinal Drive
Little Falls, NJ 07424

InterGL™

Operating System: DSM

Keywords: • Financial analysis • General ledger

This complete general ledger and financial reporting system can be used by any small to medium-size business or medical entity. InterGL serves up to 9000 major general accounts, keeps an entity's general and subsidiary ledgers, and produces financial and management reports.

The user may define and design a chart-of-account structure and financial reports, as well as the fiscal-period structure of the accounting system. The system can be used to produce divisional and consolidated reports. The system definition functions are accomplished on line, and extensive editing is performed to ensure correctness.

General ledger postings are entered on line. The user specifies the fiscal period and the number of postings. The account number is verified against the chart-of-account file, the name of the account is displayed, and the user then enters the date of the posting, its source, the amount of the posting, and any audit reference and explanation. The entry process minimizes the number of keystrokes while ensuring adherence to correct accounting principles.

The user may review and modify postings before posting them to the ledger. A posting to the ledger can be reversed by making an adjusting entry. Complete journal listings can be produced for all postings. Budget figures may also be entered into the system.

The system's reports include general ledger (with subsorting by vendor and customer within account), abbreviated general ledger, summary general ledger, journals, and working trial balance. Financial statements include P&L reports by division and/or consolidated for various periods and balance sheet. Statements can be produced with user-defined supporting and management schedules.

InterGL can take postings from other accounting systems, such as accounts payable, accounts receivable, and depreciation and amortization. Once a period has been closed, postings can no longer be made to that period. Closing of period creates the beginning balances for the next period. If a year-end closing is performed, only the balance sheet account figures are carried forward. The system may be used for both cash and accrual accounting.

A version of this product is available for the VAX computer.

Price: \$2500

Contact: Alexander J. Phillips, President
(201) 256-7633

INTERACTIVE SYSTEMS AND MANAGEMENT CORP.
1500 Cardinal Drive
Little Falls, NJ 07424

Inventory

Operating System: RSTS

Keywords: • Inventory

This package is programmed in VAX BASIC combined with file-driven procedures and handles multiple companies and branches and multiple divisions within branches. All system codes, reference numbers, and file specifications are user accessible and easily maintained. A security system is included, with security at the program level as well as at the option level.

The system features up to 20 characters for product identifications and up to 8 characters for bin location code; assigned general ledger account numbers for inventory, sales, and cost of sales for each product; interfacing with Order Entry and Purchase Order modules, making automatic journal entries for issues and receipts; unlimited files on previous-year history that can be transferred off line or purged; perpetual maintenance of warranty history records for serialized items sold to customers; a product tax-handling feature; reconciliation routines for comparing physical count; and FIFO, LIFO, or averaging inventory costing methods.

This package interfaces with RSC Accounts Receivable, Order Entry, General Ledger, and Purchase Order.

A version of this product is available for the VAX computer.

100 Accounting

Price: \$3000 - \$6000

Contact: Linda Wingfield
(919) 766-0571

RESOURCE SYSTEMS CORP.
4000 Clemmons Avenue, P.O. Box 1546
Clemmons, NC 27012

IOI: Order Entry

Operating System: RSTS, RSX, RT-11

Keywords: • Billing • Inventory • Order entry
• Purchasing

This order entry system, based on average unit costing, handles purchasing, inventory control, and invoicing. IOI, which can be integrated to the standard general ledger, accounts receivable, accounts payable, and sales analysis, is screen formatted and has user-selected options and various reports and inquiries.

The purchasing package allows for items to be added to the existing purchase order, and reports are available to show the status of outstanding orders.

Price: \$7000 - \$20,000

Contact: Marvin Gogal, Branch Manager
(403) 464-7121
DATA KEY LTD.
2107 - 87 Avenue
Edmonton, Alberta T6P 1L5
Canada

Job Costing

Operating System: ULTRIX-11, UNIX* (System III, System V)

Keywords: • Cost accounting • Manufacturing
• Project management

This fully integrated on-line multiuser UNIX*-based system provides cost analysis by job and by phase, detail and summary reports, and current status inquiry. Estimate and actual information may be entered by operation. Manual entry, adjustments, job cost history, and revisions of estimates can be maintained by operation. Analysis reports that recap job cost by job, operation, product, customer, salesperson, or employee are available. An estimate-versus-actual comparison can be printed by operation or employee. A cost-versus-actual comparison can be printed by product, customer, and salesperson.

Also available are a print key providing hard copy of any screen image through the system printer, true multiuser design for concurrent program use, built-in multicompany/multidivision support, and user-assigned predefined company/division or user-allowed option to specify company/division. Timely information is assured through the automatic updating of G/L from all modules.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Laurel McDaniel

(312) 332-3242

NEAL NELSON & ASSOCIATES

185 N. Wabash, Suite 1908

Chicago, IL 60601

Keane's Financial Accounting System

Operating System: RSTS, RSX

Keywords: • Accounts payable • Accounts receivable
• General ledger • Order entry

This fully integrated on-line accounting system provides on-line updates and access to the data through easy-to-use screens, complete security controls, and error validation. The system is also fully integrated with the Factory Information System.

Keane's Financial Accounting System consists of five modules: Sales Order Processing, Accounts Receivable, Accounts Payable, General Ledger/Report Writer, and Financial Modeling.

A version of this product is available for the VAX computer.

Price: \$30,000 - \$50,000

Contact: Robert Clifford

(617) 863-0330

KEANE, INC.

420 Bedford Street

Lexington, MA 02173

MBS-AP (Manus Business Systems — Accounts Payable)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts payable

The Accounts Payable module gives the MBS user control over cash disbursements and related accounting functions. The module operates as an automatic vouchering system to accumulate information on vendors, vendor invoices, discounts, and expense distributions. The system produces complete prepayment information, writes approved checks and related reports, includes check reconciliation,

and maintains historical data for analysis. A special inquiry function produces an immediate report of cash requirements within a user-specified period for a particular bank.

Several interactive entry functions are provided to enter vouchers, modify their status in the system, permit check voiding, and reconcile returned checks. All entries are accumulated and stored to provide necessary audit trails.

All entries must have a unique voucher number assigned for audit and control purposes. A payable voucher can be classified as a 1-time purchase or as a contractual recurring payable commitment. For recurring payables, the system automatically generates the payment voucher each time payment is due, with no further manual input necessary.

The Accounts Payable module interfaces with the MBS General Ledger module.

A version of this product is available for the VAX computer.

Price: \$3000 - \$6000

Contact: Gary Vowels

(206) 285-3260

MANUS SERVICES CORP.

1700 Westlake Avenue North

Seattle, WA 98109

MBS-AR (Manus Business Systems — Accounts Receivable)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts receivable

This module provides all capabilities required for receivables processing and control. Accounting personnel can maintain a customer master file and record charges and credits for those customers on file with appropriate general ledger distributions generated to offset the transaction amount. The Accounts Receivable module gives the MBS user accurate working knowledge of outstanding accounts, individual customer credit positions, and incoming cash. Both open-item and balance-forward methods are supported.

Receivables may be created either through the Order Processing interface or by entering invoices directly into the Accounts Receivable module. Functions are included for entering invoices, cash receipts, and memos.

Several functions provide status and audit trail reporting. In many cases, those reports enable the user to supply special selection and sorting criteria. Reports, including Aged Trial Balance, Receivables Ledger, and Monthly Statements of Account, can be produced, showing all open-item detail, including past and current finance charges. Inquiry functions provide immediate access to the receivables files and to historical credit information.

The Accounts Receivable module may operate as a stand-alone module or be integrated with the MBS Order Processing and General Ledger modules.

A version of this product is available for the VAX computer.

Price: \$3000 - \$6000

Contact: Gary Vowels
(206) 285-3260

MANUS SERVICES CORP.
1700 Westlake Avenue North
Seattle, WA 98109

MBS-GL (Manus Business Systems — General Ledger)

Operating System: CTS-300, RSTS, RT-11

Keywords: • General ledger

This comprehensive package can handle the financial reporting requirements of various businesses. The system supports up to 13 reporting periods for each fiscal year, maintains 13 monthly budgets, and allows a chart of account numbers of up to 12 digits. Journal entries may be entered directly into the General Ledger module in a tightly controlled fashion or interfaced in detail or summary form from subsidiary modules. Both recurring standard journal entries and accrual entries, which are automatically reversed in the following period, are supported. Automatic allocations processing is fully implemented.

A special Financial Report Generator allows the user to create custom financial reports that specifically match the reporting needs of the organization.

A version of this product is available for the VAX computer.

Price: \$3000 - \$6000

Contact: Gary Vowels
(206) 285-3260

MANUS SERVICES CORP.
1700 Westlake Avenue North
Seattle, WA 98109

Minicomputer Business Systems

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts payable • Accounts receivable
• General ledger • Order entry

The following packages comprise the Minicomputer Business Systems:

- **General Ledger Financial Reporting Package (G/L)**, a highly flexible, simple-to-operate system, responds to management's essential reporting needs. Features include free-form structure, budget capability, prior-period comparisons, reporting flexibility, percent-to-total calculations, future-period processing, inquiry capability, and controls and audit trails.
- **Accounts Payable Package (A/P)**, used with the G/L package, features a single posting that automatically posts to both systems. Special features of the A/P system include payment flexibility, multiple distributions, next-period processing, controls and audit trails, and an inquiry capability.
- **Accounts Receivable Package (A/R)** can be linked to the Order Entry package to automatically update customer balances when invoices and credit memos are prepared. Special features include inquiry capability, flexible reporting statement printing, and flexible cash receipt accounting.
- **Order Entry, Invoicing, and Inventory Control Package (O/E)** is an integrated group of programs designed to control perpetual inventory records and to prepare sales order acknowledgments, picking lists, invoices, and sales management information. Features include inquiry capabilities, automatic inventory checks, flexible pricing and discounting, automatic credit checks, and various inventory and sales analysis reports.

PMM/MBS software programs provide the manager or decision maker with a complete environment that not only produces reports for control and decision making but also incorporates data management and maintenance facilities. The software accommodates needs ranging from simple on-line inquiries to comprehensive reporting.

Common features of PMM/MBS software programs include operator prompting, menu-driven programs, similarity of programs, master-file protection, structured input controls, immediate on-line inquiry, and selective reporting.

A version of this product is available for the VAX computer.

Price: \$2500 - \$8000

Contact: Victor Goldberg, Principal
(212) 872-7732

PEAT, MARWICK, MITCHELL & CO.
345 Park Avenue
New York, NY 10154

MINTAX (Personal Income Tax System)**Operating System:** CTS-300, RSTS, RT-11**Keywords:** • Taxes

This system prepares federal income tax returns. Input is provided from interview forms completed by the tax preparer and is entered on line by the system operator. The system calculates and prints most federal forms and tax schedules: A, B, C, D, E, F, G, R, SE, TC, 2106, 2119, 2210, 2240, 2441, 3468, 3903, 4136, 4562, 4625, 4726, 4797, 4952, 4972, 5329, 5695, 6251, Office in Home Statement, Education Expenses Statement, Miscellaneous Income, Proforma (worksheet for next year's data), 1040, and 1040-ES. Diagnostic reports, taxpayer letters, invoices, and labels are also prepared. Forms are approved annually by the IRS. A Personal Tax Planning module is available. California state returns are also prepared.

A version of this product is available for the VAX computer.

Price: \$2500

Contact: Richard Long
(415) 462-6330
MINI SYSTEMS, INC.
5726 Sonoma Drive
Pleasanton, CA 94566

Multiuser Digital Accounting System, Version 2.0**Operating System:** Independent**Keywords:** • Inventory • Payroll • Sales analysis

This general accounting package for small business consists of a starter kit and seven integrated modules. The starter kit can be installed as a stand-alone system or as a Micro/RSX-based application on the A-to-Z integrated system. The kit supports up to 99 companies and provides record and file locking and a series of installation and maintenance menus.

The General Ledger module supports multiple profit centers and up to 13 accounting periods; allows the user to enter, edit, and print the chart of accounts; and allows on-line account inquiry.

The Accounts Receivable module supports both open-item and balance-forward customers and allows the user to enter, edit, and print customer and salesperson files, sales transactions, and cash receipts.

The Accounts Payable module allows full, partial, or deferred payments and calculates due dates, discount dates, and discount amounts.

The Payroll module supports both hourly and salaried employees with six pay frequencies, supports a variety of special deductions and earnings, and prints payroll checks.

The Inventory Control module supports standard, average, LIFO, and FIFO inventory valuation methods, provides flexible pricing structure and automatic price changes, and prints the item file and more.

The Order Entry module supports 1- and 2-step order processing, calculates commissions and up to three sales tax rates for each transaction, and supports drop shipments, partial shipments, and back orders.

The Sales Analysis module integrates with Accounts Receivable to print sales analysis reports by customer, customer type, customer sales volume, responsible salesperson, and state. Integrated with Inventory Control, the module prints sales analysis reports by item, item category, and item sales volume.

Refer to SPD #18.25.00 when requesting further information on this product from your local DIGITAL sales office.

Price: \$175 - \$912

Contact: Consult your local DIGITAL sales office
(see Introduction).

OPS (On-Line Payroll System)

Operating System: RSTS

Keywords: • Payroll

This financial and administrative package is designed for colleges, universities, school boards, municipalities, and paragonovernmental agencies. OPS features user-defined earnings deductions, benefits, labor distribution, and frequencies; on-line data entry and validation; vacation advance processing; absentee control and bank facility; master file maintenance and updates; extensive audit trails; salary grid, payroll check reconciliation, and payroll projections, using salary grid; comprehensive payroll/employee reports; a report writer; and automatic interface to BAS (Budgetary Accounting System).

A version of this product is available for the VAX computer.

Price: \$30,000 (Canadian)

Contact: Dennis Sakamoto
(416) 433-2100

S.R.B. INTERNATIONAL LTD.

Whitby Corporate Centre

209 Dundas Street E., Suite 205

Whitby, Ontario L1N 7H8

Canada

Order Entry

Operating System: RSTS

Keywords: • Order entry

This package is programmed in VAX BASIC combined with limited use of file-driven procedures. The package interfaces with the RSC Accounts Receivable automated system to facilitate the processing of sales and/or service orders into accounts receivable invoices with maximum speed and efficiency.

The Order Entry package controls the entry of sales or service orders, as well as any prepayments or deposits accompanying the orders. Every order is related to a specific customer account and is transformed into an invoice after shipping data is entered. Routines include printing orders, invoices, and credit and debit memos. All data entered is validated before being accepted by the system. The complete audit trail traces all activity to its source and determines at any time what is on order (back order) on a customer, product, or salesperson basis. Salesperson activity and commission history is maintained by customer(s) and can be extended to the product level.

All system codes, reference numbers, valid print devices, file specifications, on/off switches, and default information are user accessible and easily maintained. Multiple branches and companies (with or without separate data files) are handled by the Order Entry system, and user-maintainable menu and security systems are included, with security at both the program and option levels.

This package interfaces with the RSC Accounts Receivable, Inventory, General Ledger, Purchase Order, and Job Costing modules.

A version of this product is available for the VAX computer.

Price: \$3000 - \$6000

Contact: Linda Wingfield
(919) 766-0571

RESOURCE SYSTEMS CORP.

4000 Clemmons Avenue, P.O. Box 1546

Clemmons, NC 27012

Order Entry and Inventory

Operating System: IAS, RSTS, RSX, RT-11

Keywords: • Billing • Inventory • Order entry
• Sales analysis

This menu-driven system has on-line capability for up to 64,000 inventory items, with 14-character product code fields for each item. The system includes information on product availability and pricing, product categories, three prices, average cost, quantity on hand or on order, average lead time, quantity reserved or back ordered, economic order quantity, discount codes, taxable status, picking

sequence, month-to-date and year-to-date quantity sold and costs, and comprehensive sales analyses by product, by categories, by customers, or by sales representatives. This system interacts with other Armadale business packages programmed in Pascal II.

A version of this product is available for the VAX computer.

Price: \$1500 - \$3000

Contact: Michael G. Sifton
(416) 477-8000

ARMADALE SYSTEMS INC.
Toronto Buttonville Airport
Markham, Ontario L3P 3J9
Canada

Order Entry/Inventory

Operating System: TSX-PLUS

Keywords: • Inventory • Order entry

This complete order entry/inventory control system is typically used by a distributor, reseller, or retailer. Entry of orders is checked against inventory, and picking tickets are printed. Freight charges are applied, and an invoice is issued. The invoice entry is automatically recorded in the accounts receivable.

Price: \$4000

Contact: Sam Wingate, Vice President
(813) 935-8844 or 935-8951

AUTOMATION RESOURCES CORP.
2901 W. Busch Boulevard, Suite 309
Tampa, FL 33618

Order Entry/Inventory Control

Operating System: RSTS

Keywords: • Inventory • Order entry

Memory required: 256KB and 20MB of disk storage.

Order Entry features automatically assigned order number, order date, all standard details of a customer's account after the input of the customer number (billing address, usual shipping address, shipping method, prepaid or collect, terms of sale, taxable or not, account executive, and usual commission rate), and order comments. Reports list orders received, picking lists or packing slips, and backlog or back-order situation. The system can be integrated into the billing system and the inventory and the accounts receivable programs.

Inventory Control features a master file with information on the standard and selling price, the standard item cost, the sales and costs for the period, and the year to date. The on-line system can facilitate cyclical physical inventory, which is easier than the usual semianual or annual physical inventories. Multilevel pricing by customer and multilevel discounting are available. The system tracks items on order, actual inventory balance, and available inventory and highlights when orders should be vended or manufactured internally. Reports include the inventory status report and sales costs and gross profits for the month and year to date by customer and by product. Reports on transactions processed are available for audit trails.

The inventory system can operate with less inventory, thus requiring less inventory management costs (warehouse space, insurance, and interest) and less cash investment.

Our software warranty provides users with comprehensive support and training. Each turnkey system includes up to four hours of field training for each package, at no charge, during the first 30 days following installation. A user manual is provided with each software package.

The software, written in BASIC-PLUS, runs under RSTS/E on DIGITAL PDP-11 and compatible minicomputers. End-user, OEM, and software reseller licensing agreements are available.

Price: \$1495

Contact: Warren C. Nagler

(714) 997-8927

JADTEC, INC.

546 West Katella Avenue

Orange, CA 92667

Pay (Canadian Payroll)

Operating System: RSTS

Keywords: • Employment • Payroll • Taxes

This system provides all standard requirements associated with hourly and salaried wage earners for any number of pay periods. On-line access allows instantaneous employee additions and terminations, record of employment displays, and easy time-document entry.

The payroll can be broken down by branch and department to provide meaningful labor breakdowns. In addition to the standard UIC, CPP, and tax deductions, a variety of deductions can be handled and automatically maintained.

Reporting includes edits, journals (current and year to date), a check writer with an associated check register, employee data sheets, union and health care remittances, earnings summaries, master file dumps and updates, unemployment earnings, and year-end T4 generation.

In addition, optional integration to the general ledger (Data Key G/L) and to the work-in-progress (Data Key WIP) applications is offered.

Price: \$3000

Contact: Marvin Gogal, Branch Manager
(403) 464-7121

DATA KEY LTD.
2107 - 87 Avenue
Edmonton, Alberta T6P 1L5
Canada

Payroll

Operating System: RSTS

Keywords: • General ledger • Payroll • Taxes

Deductions, attachments, and vacation pay are simple matters on this system. Allowance is made for 5 taxes and 11 deductions (fixed and/or miscellaneous). Totals are carried for both fiscal year to date and calendar year to date. Paychecks may be produced weekly, monthly, semimonthly, every two weeks, or any number of days. Complete payroll reporting includes W-2 and 941 forms, as well as a detailed user-defined analysis of payroll distributions by department and type of work. Payroll checks and a check register are produced automatically. The distribution of earnings automatically interfaces with ADD's General Ledger system.

A version of this product is available for the VAX computer.

Price: \$2000 - \$4000

Contact: Bruce A. Bott, President
(201) 584-4026

ADVANCED DIGITAL DATA, INC.
354 Route 206
Flanders, NJ 07836

Payroll

Operating System: RSTS

Keywords: • Payroll • Report writer • Taxes

This comprehensive, flexible on-line system with conversational-mode processing handles the complete payroll reporting cycle, including base payroll, tax, and deduction registers; management and government reports; and labor distribution reporting. Payroll handles multiple pay periods and multiple checks for each employee, quarterly and annual processing, and tips and meal processing. The Payroll system automatically processes and maintains all information to ensure efficient and reliable control in the payroll operation.

Price: \$2000 - \$9800

Contact: Marketing Department
(502) 491-9820 or 1-800 626-6268

AMCOR COMPUTER CORP.

1900 Plantside Drive

Louisville, KY 40299

Payroll

Operating System: IAS, RSTS, RSX, RT-11

Keywords: • Payroll

This menu-driven system maintains employee and personnel file data; calculates holiday, vacation, sick, or miscellaneous pay, based on regular, overtime, and premium wage scales; has up to eight standard deductions, including savings bonds, which may be prioritized with maximum limits; and provides pay frequency set by the user, with month-to-date, quarter-to-date, and year-to-date totals returned for all data. Payroll prints pay checks and produces payroll, tax, deductions, earnings, and payroll history registers; voids checks; and includes handwritten checks in the system. Payroll interacts with other Armadale business packages programmed in Pascal II.

A version of this product is available for the VAX computer.

Price: \$1500 - \$3000

Contact: Michael G. Sifton
(416) 477-8000

ARMADALE SYSTEMS INC.

Toronto Buttonville Airport

Markham, Ontario L3P 3J9

Canada

Payroll

Operating System: TSX-PLUS

Keywords: • Payroll • Taxes

This complete payroll system provides standard gross-to-net calculations. Federal and state taxes are provided as file tables for end-user maintenance. The system prints payroll checks and registers, tax summary reports, 941 and W-2 forms, and an employee master list.

Price: \$2000

Contact: Sam Wingate, Vice President
(813) 935-8844 or 935-8951

AUTOMATION RESOURCES CORP.

2901 W. Busch Boulevard, Suite 309

Tampa, FL 33618

Payroll

Operating System: RSTS

Keywords: • Cost accounting • Payroll • Project management
• Taxes

The Payroll program accepts manual time sheet entries or processes labor information from the Project Cost module. The system can generate W-2 forms for both hourly and salaried employees. Entry of data is accomplished quickly, and the software performs automatic tax withholding and deduction calculations. The program has eight standard earnings categories and eight user-defined deduction categories. Features include automatic printing of check registers and checks, easy modification of the latest yearly tax tables, and automatic tracking of vacation, sick days, and holiday hours. A payroll may be done on weekly, biweekly, semimonthly, or monthly. The module also supports individual dependents and additional dollar deductions for both state and federal taxes. Payroll software supports advanced earned-income credit payments and offers an optional exclusion of any tax category.

Price: \$5000 - \$20,000

Contact: Chuck Sargent, Software Sales Representative
(714) 970-1515

DATA PROCESSING DESIGN, INC.
1400 North Brasher
Anaheim, CA 92807

Payroll

Operating System: CTS-300

Keywords: • Payroll • Taxes

This comprehensive free-standing module of programs provides gross to net automatic payroll writing. Entry of handwritten checks and adjustments to quarterly and year-to-date figures are accommodated. Following the automatic preparation of checks, appropriate journals are prepared for the control of hours entered by department, checks, taxes, deductions, check reconciliation, and GL interface.

The system features single-source direct entry through CRTs, tutorial prompting for simplified operation, automatic rate and tax calculations, automatic variable deductions, multiple-state calculations, control of declining-balance deductions, automatic W-2 preparation, direct master file inquiry, and on-demand report printing. Hourly and salary payrolls may be run separately or together.

Tax tables can be set up as weekly, biweekly, semimonthly, and/or monthly. Multiple-state and city taxes may be automatically calculated. (The user must supply the appropriate tax tables.)

Payroll processing is accomplished by interactive CRT entry of employee number (with automatic verification of and display of employee name), regular hours (defaults to standard hours), overtime hours, vacation hours (if any), miscellaneous earnings to be paid, and any 1-time deductions. From this minimal input, payroll checks plus all reports are automatically prepared and available for printing on a demand basis.

The employee master allows for one salary or three hourly rates (plus overtime and double time), nine regular deductions and two declining balance deductions, deductions frequency code, and additional federal and state withholding taxes. Five taxes may be calculated: federal, FICA, state, city, and disability insurance.

Price: \$1500 - \$2000

Contact: Robert J. Steinis
(203) 378-6010

FOOD DISTRIBUTOR SYSTEMS, INC.
959 Main Street
Stratford, CT 06497

Payroll

Operating System: RSTS

Keywords: • Payroll

Memory required: 256KB and 20MB of disk storage. Distribution medium: 9-track 800/1600 bpi magnetic tape.

This system handles labor distribution and an unlimited number of employees and calculates salaried or hourly payments, miscellaneous income, overtime, and federal and state taxes. The system keeps track of year-to-date earnings and taxes; automatically posts to the general ledger; prints checks, employee lists, payroll registers, and W-2s; and generates 941 information and tax deposit amounts.

Our software warranty provides users with comprehensive support and training. Each turnkey system includes up to four hours of field training for each package, at no charge, during the first 30 days following installation. A user manual is provided with each software package.

The software, written in BASIC-PLUS, runs under RSTS/E on DIGITAL PDP-11 and compatible minicomputers. End-user, OEM, and software reseller licensing agreements are available.

Price: \$1495

Contact: Warren C. Nagler
(714) 997-8927

JADTEC, INC.
546 West Katella Avenue
Orange, CA 92667

Payroll

Operating System: ULTRIX-11, UNIX* (System III, System V)

Keywords: • Payroll • Personnel • Taxes

This fully integrated on-line multiuser UNIX*-based payroll system provides for either salaried or hourly personnel and maintains both earning and deduction histories for each employee. Payroll checks, tax deposit checks, and deduction deposit checks are printed automatically. The system allows printing multiple checks for an employee in a payroll period (accommodates vacation and bonus checks) and supports manual or handwritten checks. Either manual or computer-generated checks may be voided. The system calculates taxes and standard deductions and provides separate deduction registers for each type of deduction. Tax reports (such as 941 and W-2 forms) are printed and may be used to substantiate payments sent to unions and savings plans. A variety of standard or 1-time deductions is supported. Deduction codes may be user defined. Standard deductions can be a set amount and/or a percentage of the regular hours. Tax formulas are stored in easily modified tables to facilitate changes when tax laws change. Earnings may be allocated to multiple G/L accounts, and automatic interface to both G/L and job costing is provided.

Also available are a print key providing hard copy of any screen image through the system printer, true multiuser design for concurrent program use, built-in multicompany/multidivision support, and user-assigned predefined company/division or user-allowed option to specify company/division. Timely information is assured through the automatic updating of the G/L from all modules.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Laurel McDaniel
(312) 332-3242

NEAL NELSON & ASSOCIATES
185 N. Wabash, Suite 1908
Chicago, IL 60601

Payroll

Operating System: RSTS

Keywords: • Data dictionary • Payroll

This program provides all the forms, programs, and procedures necessary to perform the payroll function. Menu orientation makes this system easy to learn and simple to use. With the system's effective error reporting and interactive editing of input information, most errors can be identified and corrected before reaching the main system.

Reviewed annually by outside accountants, this system has a complete, easy-to-follow audit trail and is continually kept up to date. Comprehensive reporting includes year-to-date and quarter-to-date registers, preliminary and final payroll journals, earnings and labor distribution reports, deductions reports, and a variety of reports on historical information.

The program may be run stand alone or may be interfaced with a companion general ledger system. The documentation includes detailed operating procedures, flow diagrams, file layouts, report samples, program operating instructions, and a dictionary of data and terms used in the system. Complete support and training are available.

A version of this product is available for the VAX computer.

Price: \$2500 - \$7500

Contact: Sharen Robinson, Sales Assistant
(219) 935-5121

PLYCOM SERVICES, INC.

P.O. Box 160

Plymouth, IN 46563

Payroll (Canadian)

Operating System: RSTS, RSX

Keywords: • Payroll • Personnel

This system, designed to work with the Computer Management System, is table driven, with all files processed by data dictionaries. The system can be adapted to cover a wide range of requirements and to meet the needs of any Canadian organization. The system may also be used as is. More than 100 programs are included for building a customized set of payroll programs.

The payroll and personnel master files are maintained in both numeric and alphabetic sequence for easy access and inquiry. The system is self-verifying, with audit trails of all processing.

The Payroll system is used in construction, entertainment, government, manufacturing, processing, and sales.

A version of this product is available for the VAX computer.

Price: \$8000

Contact: Bill Hay

(204) 888-5253 or 832-3680

BILL HAY & CO.

1164 Crestview Park Drive

Winnipeg, Manitoba R2Y 0W6

Canada

Payroll (Canadian)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Employment • Payroll • Personnel

This system, which meets the requirements of Canadian companies, is based on an employee master file and a time-recording transaction file. The employee master file stores personnel information, fixed payroll deductions, year-to-date accumulations of taxes and deductions, and miscellaneous codes for salaried employees only. The time-recording transaction file stores the input of time card data for hourly employees. The files integrate to produce checks and payroll journals for hourly employees. The system meets requirements for hourly, salaried, and executive employees. Labor expense for salaried employees may be allocated on a percentage basis to certain departments. Direct labor expense is distributed for hourly employees through time card entry.

The system allows custom selection of deductions, benefits, personnel data, and other items by employee. The payroll may be run weekly, biweekly, monthly, or semimonthly. Audit trails can be generated showing all payroll transactions and changes to the employee master file. Plus, the previous 52 weeks of UIC insurable earnings are automatically calculated and stored by employee to facilitate issue of separation certificates. The Payroll system interfaces to the General Ledger through transactions that are automatically generated for all payroll earnings and deductions. High-level security restricts access to unauthorized users. Printing features include T-4 forms, the preedit report, payroll register, check register, General Ledger report, and payroll history report. Plus, descriptions of earnings and deductions are printed by the check-writing program. Thus, descriptions do not need to be preprinted on the check stub. Changes or additions to employee earnings and deductions are accommodated as well.

A version of this product is available for the VAX computer.

Price: \$2000 - \$15,000

Contact: Tom Muskiluke
(519) 893-4200

DIGITAL BUSINESS COMPUTERS

133 Manitou Drive
Kitchener, Ontario N2C 1L4
Canada

PAYSOLVE (Payroll)

Operating System: RSTS, RSX

Keywords: • Payroll

This comprehensive, easy-to-operate payroll package is written in COBOL and meets all existing statutory requirements. PAYSOLVE can be used for weekly, fortnightly, monthly, lunar monthly, and quarterly payrolls and year-end procedures. The package offers full up-to-gross calculation, including 99 pay elements, such as overtime, holidays, sickness, bonuses, and so on, as well as complete gross-to-net calculation — tax, NI up to nine pension schemes, and rounding. Open-format payslips, checks, analyses, summaries, and so forth are provided, as are user-generated reports and maintenance procedures. Security is maintained through passwords and checks on non-paid/highly paid staff. Full SSP facilities and BACS are provided. Also available are optional labor costing and automatic normal ledger interfacing (to SCC General Package or FINCON/IMPCON).

A version of this product is available for the VAX computer.

Price: £3000 – £12,000

Contact: M. J. Bradley, Sales and Marketing Manager
0905 53335

STAVELEY COMPUTING

Blackpole Road

Worcester WR3 8TH

United Kingdom

PCAS (Project Cost and Accounting Software)

Operating System: RSTS

Keywords: • Cost accounting • Financial analysis
• Menu handlers • Project management

This fully integrated system for architects, engineers, and professional service organizations is menu driven, has on-line help, and includes project cost/autobilling, accounts payable, general ledger, accounts receivable, and payroll modules. Data is entered into the system with on-line verification of codes, such as customer and vendor numbers, and can be listed out in user-selected formats for verification prior to updates. Source information is entered once, and appropriate files are modified automatically. Reports can be viewed from terminals, printed, or saved on disk, providing a complete audit trail from the original entry of data to the detailed trial balance and review copies of financial statements. The system maintains an operations log of all programs executed, showing operator, date/time, terminal, and description of work performed, ensuring confidentiality and control of accounting information.

Price: \$5000 – \$20,000

Contact: Chuck Sargent, Software Sales Representative
(714) 970-1515

DATA PROCESSING DESIGN, INC.

1400 North Brasher

Anaheim, CA 92807

Perspective/700 Accounts Payable

Operating System: RSTS

Keywords: • Accounts payable • Cost accounting
• Financial analysis

This system provides expense control, cash management, and simplified accounting procedures for multiuser, multicompany organizations. The system automatically computes multiple vendor discounts, schedules invoices for payment, posts to General Ledger, handles repetitive payments, and allows automatic or manual expense distribution to G/L.

Features of the system make payment easy. The system allows vendor class codes, discounts and freight itemized by vendor and invoice, and duplicate invoice checking. Complete accounting controls, computer check writing, and a check register are also included. The system can handle partial and selective payments. Other features include a cash-requirement forecast, an interface to Purchasing, foreign-currency conversion, and generation of federal 1099 forms.

A version of this product is available for the VAX computer.

Price: \$2000 - \$5000

Contact: Michael B. Andelman, President
(312) 953-2220

LIOCS CORP.

246 E. Janata Boulevard
Lombard, IL 60148

Perspective/700 Accounts Receivable

Operating System: RSTS

Keywords: • Accounts receivable • Billing
• Financial analysis

This system provides up-to-the-minute credit status to help streamline collection activities and the timely production of customer statements and financial statements. This flexible multiuser, multicompany system supports open-item or balance-forward accounts, selective finance charges and statements, and unpaid or partially paid invoices. Plus, the system allows on-line inquiry of customer account status and history by customer name, account number (and, for VAX users, zip code and telephone). Special pricing is allowed for individual customers. The system also calculates prompt payment discounts and volume discounts. The system allows balance and control points and on-line posting of cash receipts.

The system performs many tasks automatically, such as the automatic invoice update from the Order Entry system and the automatic sales tax reporting for taxable and nontaxable accounts. The system can also generate a detailed aging list and perform exemption reporting to highlight problem areas.

A version of this product is available for the VAX computer.

Price: \$2000 - \$5000

Contact: Michael B. Andelman, President
(312) 953-2220

LIOCS CORP.

246 E. Janata Boulevard
Lombard, IL 60148

Perspective/700 General Ledger

Operating System: RSTS

Keywords: • Financial planning • General ledger • Inventory
• Order entry

This system can help you control your business with comprehensive up-to-date financial information. Information is maintained for current year, previous year, and budgets, allowing analysis of current-year performance versus previous-year or business plan objectives. Combined with DIGITAL's DATATRIEVE Report Writer, Perspective/700 General Ledger allows you to design your own reporting format for income statement, balance sheet, and additional financial reports. The system is versatile and easy to learn.

The system provides various scheduling, such as a monthly profit-and-loss balance sheet, trends by month and history for 26 accounting periods, comparison to previous periods, 13 accounting periods (optional), and a fiscal year different from the calendar year. This system also handles multiuser, multicompany reporting and provides complete audit trails, a comparison of actual to budget, and multiple levels of consolidation. The chart of accounts features a user-defined account number format. Recurring entries are allowed, and the system is automatically updated from all Perspective/700 applications. The system also includes security features.

A version of this product is available for the VAX computer.

Price: \$2000 - \$5000

Contact: Michael B. Andelman, President
(312) 953-2220

LIOCS CORP.

246 E. Janata Boulevard
Lombard, IL 60148

PHENIX PASS

Operating System: CTS-300, RSTS, RT-11, UNIX* (Version 7)

Keywords: • Cost accounting • Query facilities
• Report writer

This assets accounting system features a complete register of assets; historical or current cost methods; various depreciation bases; an interface to nominal ledger; group assets, consolidations, transfers, and part disposal; comprehensive reports; inquiry facilities; and reminders.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: T. J. McAllister

(44) 232-247433

SOFTWARE IRELAND LTD.

26 Linenhall Street

Belfast BT2 8PJ

Northern Ireland

Pioneer COMMAND Accounts Payable Module

Operating System: RSTS

Keywords: • Accounts payable

This module, developed by Pioneer Software International, is an interactive, on-line, user-friendly comprehensive account-management system. The module may be installed stand alone or as part of Pioneer's COMMAND System for Financial Management, Distribution, and Manufacturing. Pioneer's COMMAND System is written in BASIC-PLUS-2 and requires a minimum of 64K words. Because the system is based on Userware International's USER-11 Database Management System, extensive on-line inquiry and ad hoc reporting are available.

The Accounts Payable module allows for extensive flexibility in dealing with individual accounts, which may be either balance forward or open item. Outstanding transactions are aged into six periods. The module provides for unallocated payments and for partial payments. A variety of screen displays are available to review vendor balances, account status, or detailed data on selected transactions. Numerous reports are available, including cash requirements, audit statements, disputed-invoices list, address labels, checks, general ledger summary, and others. The module automatically interfaces with Purchase Order Processing and General Ledger.

A version of this product is available for the VAX computer.

Price: \$3000 - \$6000

Contact: Jered Cady, Vice President, Sales and Marketing

(619) 745-6006

USERWARE INTERNATIONAL

2235 Meyers Avenue

Escondido, CA 92025

Pioneer COMMAND Accounts Receivable Module

Operating System: RSTS

Keywords: • Accounts receivable

This module, developed by Pioneer Software International, is an interactive, on-line, user-friendly, comprehensive customer-account management system. The module may be installed stand alone as part of Pioneer's COMMAND System for Financial Management, Distribution, and Manufacturing. Pioneer's COMMAND System is written in BASIC-PLUS-2 and requires a minimum of 64K words. Because the system is based on Userware International's USER-11 Database Management System, extensive on-line inquiry and ad hoc reporting are available.

The Accounts Receivable module allows extensive flexibility in dealing with individual or groups of accounts. Individual customers can be assigned to a group account to facilitate central statement production. Cash received from group accounts can be distributed over individual accounts, which may be either balance forward or open item. Outstanding transactions are aged into six periods. The module provides for unallocated cash and a variety of debit/credit transactions, including returned checks, invoices, debit memos, and debit and credit adjustments. A variety of screen displays are available to review customer balance, account status, or detailed data on selected transactions. Numerous reports are available, including aged accounts receivable, credit limit, and others. The module automatically interfaces with Sales Order Processing and General Ledger.

A version of this product is available for the VAX computer.

Price: \$3000 - \$6000

Contact: Jered Cady, Vice President, Sales and Marketing
(619) 745-6006

USERWARE INTERNATIONAL
2235 Meyers Avenue
Escondido, CA 92025

Pioneer COMMAND General Ledger Module

Operating System: RSTS

Keywords: • General ledger

This module, developed by Pioneer Software International, is interactive, on line, and user friendly and provides a comprehensive set of corporate, financial, and management accounting reports for all levels of management. The module may be installed stand alone or as part of Pioneer's COMMAND System for Financial Management, Distribution, and Manufacturing. Because the system is based on Userware International's USER-11 Data Base Management System, extensive on-line inquiry and ad hoc reporting are available.

The General Ledger module handles multicompany and multi-cost center (department or branch) accounts. Provisions are made for last year's results and for budgets and budget revisions. The module supports 12 or 13 operating periods. The user-defined account code may be up to 25 characters long. For accounts used frequently, a short look-up code of up to four characters may be used. Fixed journal entries (accruals and reversals) may be recorded in a fixed journals file, which also contains details of the accounts and periods affected. Those amounts may be spread on a percentage basis over a number of accounts. Budget records may be integrated for any account, using individual values or percentages of an annual value. A variety of screen displays are available to review account balances and to show account detail and budget information. Numerous reports are available, including trial balance, income statement, balance sheet, and audit reports. A financial report generator provides a flexible means of reporting any value or combination of values in any of the financial records. The module automatically interfaces with each of the other COMMAND modules. Complete documentation is available to facilitate interface to other user-written applications.

A version of this product is available for the VAX computer.

Price: \$3000 - \$6000

Contact: Jered Cady, Vice President, Sales and Marketing
(619) 745-6006

USERWARE INTERNATIONAL
2235 Meyers Avenue
Escondido, CA 92025

Plycom Core Accounting Systems

Operating System: RSTS

Keywords: • Accounts payable • Accounts receivable
• General ledger • Payroll

These simple yet flexible packages were designed by accountants for accountants. Operation is interactive, uses extensive prompting, and fully utilizes RSTS/E and VMS yet retains security and ease of recovery of batch and manual systems. Batch controls are on all data, accounting controls are preserved, interim data is held separate until verified and then passes into the regular files, an excellent audit trail exists throughout, and the file and report structure divides information into the user's own traditional accounting periods.

- Accounts Receivable allows complete receivables control through varied account reports, on-line inquiry by customer number or name, flexible yet controlled entry of cash receipts, numerous customer options (balance forward or open item, customer type, credit limit, and so on).

- Payroll provides easy maintenance of employee records, multiple payrolls, labor distribution reports by distribution code or pay type (regular, premium, and other) within department and division, excellent printer control for special forms, and user-defined deduction and labor codes.
- Accounts Payable allows complete control over discounts, payment scheduling, and cash requirements forecasting; flexible reporting, including past history as well as current information; and excellent printer control for special forms.
- General Ledger provides on-line availability to all journal entries and purchase distributions for the entire fiscal year. Account inquiry for detail or balances automatically feeds the Financial Reporting Package. A complete audit trail from journal entry to Financial Reports includes trial balance and trial balance in 10-column worksheet format for easy period reconciliations.
- Financial Reporting includes complete flexibility in statement formatting; multiple formats, with automatic feeding from regular, history, or budget general ledgers; and comprehensive multientity reporting with multilevel consolidations, eliminations, or adjustments.
- Fixed Assets includes all the programs, forms, and procedures necessary for complete asset reporting; accommodates reporting assets for both book and tax purposes; and includes depreciation forecasting and an automatic interface to the General Ledger.

A version of this product is available for the VAX computer.

Price: \$3000 - \$35,000

Contact: Sales Representative
(219) 935-5121

PLYCOM SERVICES, INC.

P.O. Box 160

Plymouth, IN 46563

PM11 Accounts Receivable

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts receivable • Credit
• Financial analysis • Financial planning

This package maintains an open-item file that is updated in an on-line interactive mode and provides aging by invoice (transaction) date, invoice-due date, or cash discount date. Reports may be generated for each of those options. This package can be linked with the Order Entry package to automatically update customer balances when invoices and credit memos are prepared.

124 Accounting

A 10-character alphanumeric account code accommodates various coding schemes to help access a series of customer accounts or sequence accounts for more meaningful reporting. A powerful inquiry capability provides up-to-date status of customer account balances, open items, sales history, credit limit, and similar indicative and financial data. Customer statements include all open items, summary account aging, and a turnaround document to help apply cash receipts to open items. Cash receipt action codes and a reporting capability are also provided.

Price: \$2500

Contact: Victor Goldberg
(212) 872-7732

PEAT, MARWICK, MITCHELL & CO.
345 Park Avenue
New York, NY 10154

PM27 Accounts Payable

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts payable • Financial analysis
• Financial planning • General ledger

This package is used with the General Ledger package, offering the advantage of a single posting. A 10-character alphanumeric code accommodates various coding schemes to help access a series of vendor accounts or sequence accounts for more meaningful reporting. A combination of programs provides a simple yet flexible system for selecting items for payment and for monitoring cash flow. Distribution of invoice amounts allows multiple General Ledger accounts from the same invoice. Next-period processing is offered. A powerful inquiry capability provides an up-to-date status of unpaid invoices aged as current and 12 past-due periods. Edits and batch input controls ensure the validity and accuracy of input data and audit trails of all transactions identified by source, reference number, month, and batch.

Price: \$2500

Contact: Victor Goldberg
(212) 872-7732

PEAT, MARWICK, MITCHELL & CO.
345 Park Avenue
New York, NY 10154

PM28 General Ledger/Financial Reporting

Operating System: CTS-300, RSTS, RT-11

Keywords: • Financial analysis • Financial planning
• General ledger

This package is highly flexible, simple to operate, and responds to management's essential reporting needs.

A 10-character alphanumeric account code accommodates variously structured charts of accounts and provides for multiple subsidiaries, departments, cost centers, and locations. A budget capability accommodates budgets in whole dollars for 13 reporting periods, enabling comparison of actual expenditures against predetermined budgets. Prior-period comparisons enable current-period results to be compared with prior years' results. Reporting flexibility is attained through a report file, which allows reports to be structured by department, cost center, product line, individual divisions, company consolidations, or pro forma supplemental financial schedules. Future-period processing allows entry of transactions of 11 or 12 periods into the future. Controls and audit trails provide for edits and batch-balancing controls to ensure the validity and accuracy of data. An inquiry capability provides up-to-date status of individual General Ledger account balances, budgets, account descriptions, and group total designations. Percent-to-total calculations allow any account or total of a group of account balances to be used as either a denominator or a numerator for a percent-to-total calculation.

Price: \$3500

Contact: Victor Goldberg

(212) 872-7732

PEAT, MARWICK, MITCHELL & CO.

345 Park Avenue

New York, NY 10154

Practice Management

Operating System: CTS-300, RSTS, UNIX* (Version 7)

Keywords: • Accounts receivable • Billing • Management

This system simplifies the recording and reporting of time and expenses. In the system, clients are stored by billing responsibility. Clients may be tracked on an engagement-by-engagement basis. The reports and management analyses are printed to monitor staff, clients, work codes, and profit areas in the firm. The system can accommodate firms with more than one office. All reports are directed to the billing responsibility, the firm, or the particular branch.

The system maintains a fiscal year billing history, which is used to analyze current clients and to project the budget for the coming year. The system offers progress billings or final billings, allows the writing up or writing down of charges, and generates statements and invoices.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$1500 - \$7500

Contact: Marc Alexander, National Sales Manager
(503) 641-8100

ALPINE DATASYSTEMS, INC.
8043 SW Cirrus Drive
Beaverton, OR 97005

Prime Fixed-Asset System

Operating System: RSTS

Keywords: • Banking • Fixed assets • Inventory

This system, written in BASIC, automates the recording and control of a company's fixed-assets inventory. Every asset is specifically recorded, and all accounting entries are generated for purchase, depreciation, retirement, and disposal. Depreciation is calculated on a monthly basis, using the straight-line method. All accounting entries can be interfaced to an existing general ledger system.

Fixed assets may be segregated by fixed-asset type, providing flexible accounting allocations. Assets can be grouped by location, type, number, cost center, and last depreciation date. Information stored for each fixed asset includes asset name, type, number, cost and location; cost center; serial number; date entered, sales tax, salvage value, and useful life; and last depreciation date, depreciation type, monthly depreciation amount, and accumulated depreciation. Existing fixed-asset records may be modified, deleted, retired, and disposed. A history file of retired or disposed assets is maintained.

The following reports are prepared: accounting journal, daily transactions, and fixed assets by location, by type, by asset number, and by cost center. Special reports may be easily produced using DATATRIEVE.

A version of this product is available for the VAX computer.

Price: \$5000 - \$10,000

Contact: Salvatore Cangialosi
(212) 946-5796

PRIME ASSOCIATES, INC.
38 Paerdegat 7 Street
Brooklyn, NY 11236

Project Cost/Autobilling

Operating System: RSTS

Keywords: • Billing • Cost accounting • Financial analysis
• Project management

This software shows detailed project progress and financial analysis information and aids preparation of client billings. The module maintains data about ongoing projects and tasks at the discipline, phase, and activity levels. Project Cost software collects project-related costs (from Accounts Payable) and maintains a transaction history of labor and expense costs in detail. The module features labor distribution entry, with the optional ability to prepare payroll checks and handle other pertinent data from the project labor entries. Detailed expense transactions in Accounts Payable and General Ledger are fed into Project Cost, reducing the number of entries required and allowing invoices and management reports to be easily prepared. Project Cost software reports profitability on a project-by-project basis, and a variety of compensation methods may be used for billing services-rendered projects. The status of each project is reported by task and with comparisons to original estimates.

Price: \$5000 - \$20,000

Contact: Chuck Sargent, Software Sales Representative
(714) 970-1515

DATA PROCESSING DESIGN, INC.
1400 North Brasher
Anaheim, CA 92807

PTB (Professional Time and Billing)

Operating System: RSTS, RT-11, TSX-PLUS

Keywords: • Accounts receivable • Billing • Report writer

Distribution media: RL02, RX02.

This package tracks and invoices professional time/units to specific jobs. The invoicing function automatically updates Accounts Receivable.

Staff hours/units may be billed to a job at up to 10 rates. Prebilling sheets listing the current status and all past activity to the job are produced. As activities are selected for billing, writeups/offers are entered.

PTB produces numerous management and job reports. Management reports, many of which are designed with plotting capabilities, include staff and department productivity reports, comparisons of time and actual cost for each service performed, comparisons of job estimates to actual costs, service code summaries and project, market, and company profit reports. Accounts receivable reports include aged trial balance, client status, monthly cash, and sales summary. Job reports include client and job address cross-reference, market and department job listing, and jobs by date promised.

PTB allows a maximum of 99,999,999 jobs, 999,999 clients, and 999 staff members.

A version of this product is available for the VAX computer.

Price: \$5000 - \$8000

Contact: Dwight Johnson
(303) 574-8086

PROFESSIONAL COMPUTER SERVICES

2345 N. Academy, Suite 209

Colorado Springs, CO 80909

Purchase Order Accounting

Operating System: ULTRIX-11, UNIX* (System III, System V)

Keywords: • Manufacturing • Purchasing

This fully integrated on-line multiuser UNIX*-based purchase order accounting system prepares purchase orders, maintains records of expected delivery dates, accepts receipts information, and provides reports of items that need review. The system provides for multiple receipts, partial receipts, back orders, returns, allowances, adjustments, and items damaged during shipment. Open-order analysis reports are available by product, vendor, or buyer. A change-in-status report by item can be produced, showing open purchase orders at start of period, new orders, receipts, and open purchase orders at end of period. That order can be organized by item, by item within vendor, or by item within buyer. Future orders may be entered, and stock requirements reports can be printed to assist with long-range manufacturing plans.

Also available are a print key providing hard copy of any screen image through the system printer, true multiuser design for concurrent program use, built-in multicompany/multidivision support, and user-assigned predefined company/division or user-allowed option to specify company/division. Timely information is assured through the automatic updating of G/L from all modules.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Laurel McDaniel
(312) 332-3242

NEAL NELSON & ASSOCIATES

185 N. Wabash, Suite 1908

Chicago, IL 60601

PY-11 (Payroll)

Operating System: Micro/RSTS, Micro/RSX, RSTS

Keywords: • Payroll • Personnel • Taxes

Distribution media: 800/1600/6250 bpi magnetic tape, RK07, RL02, RM03, RX50.

This system features on-line payroll calculations for all types of pay and deductions, including federal and multiple states' income taxes. User-designed forms allow all types of governmental reporting, including federal and state payroll tax reports, state unemployment and disability reports, and W-2 forms. Other user-oriented features include:

- User-defined employee numbers with up to 11 characters and 4 user-defined fields for each employee record to store additional personnel information
- A user-designed check form that accommodates almost any check design
- The choice of processing employee payroll checks individually or automatically for a group of employees
- Table-driven tax calculations for federal and state income tax withholding, including supplementary pay, social security tax, and earned-income credit
- Multiple pay rates, including shift differentials, and multiples of regular rates
- User-defined pay/deduction types, including automatic cutoffs based on hours, amounts, or date
- Vacation and sick leave accrual
- An audit trail for all entries provided by transaction journals and change logs
- A detail posting collapse feature that allows W-2s and governmental reports for prior payroll periods to be printed after new payroll information has been entered
- A password security system
- Adaptable to Canadian payroll requirements
- Interfaces to CN-11 Job Cost and GL-11 General Ledger; other complementary products include the AP-11 Accounts Payable, AR-11 Accounts Receivable, FA-11 Fixed Assets, OE-11 Order Entry, and IC-11 Inventory Control systems

PY-11's reports include employee listings, a check register and employees' checks report, historical general ledger distributions, earnings by payroll code, rate change and rate review reports, terminated employees, quarterly reports, and tax table listings.

The PY-11 user's guide includes information for the office manager, the terminal operator, and the application supervisor. The reference manual provides information on installation procedures, program flows, and data formats for the system manager and programmers.

A version of this product is available for the A-to-Z system.

A version of this product is available for the VAX computer.

Price: \$1600 - \$7500

Contact: Sales Department
(806) 792-3785

COMPU-SHARE, INC.

3824 50th Street

Lubbock, TX 79413

Random Number Generator

Operating System: CTS-300, RSX, RT-11

Keywords: • Audit • Mathematics • Statistics

This program enables the accountant preparing for an audit to quickly and easily select random samples of checks, invoices, journal entries, and so on. No longer must random-number tables be consulted and lists prepared manually.

The basis for generating the random-number tables is a seed number, an unbiased 6-digit number, such as your birth date or the hour of the day. Optionally, the system will generate the seed number if manual entry is not desired.

The Random Number Generator offers simplicity of operation and automatic reporting and provides for a valid statistical sampling of transactions. The system features:

- Menu application selection
- Generation of up to 100 random-number schedules for each batch
- Sample size range to four digits
- User-selected output — unsorted output without sequence numbers, sorted output with or without sequence numbers, unsorted and sorted output
- User-selected formats — nonoverlapping series, overlapping series, page/number series, alphanumeric series

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Bob Sprowls

(904) 434-2685

DIGITAL SYSTEMS, A DIV. OF UCCEL

114 E. Gregory Street

Pensacola, FL 32501

RAS (Receivable Accounting System)

Operating System: RSTS

Keywords: • Accounts receivable

This financial and administrative package is designed for colleges, universities, school boards, municipalities, and paragonovernmental agencies. RAS features centralized, on-line cash receipts; open-item accounts receivable; multiinvoicing system capability; multilevel

inquiry; automatic interface to BAS (Budgetary Accounting System); user-defined interest calculation parameters; and automatic application of open credit notes.

A version of this product is available for the VAX computer.

Price: \$15,000 (Canadian)

Contact: Dennis Sakamoto

(416) 433-2100

S.R.B. INTERNATIONAL LTD.

Whitby Corporate Centre

209 Dundas Street E., Suite 205

Whitby, Ontario L1N 7H8

Canada

RealWorld Software: Accounts Payable

Operating System: UNIX* (System III, System V, Version 7)

Keywords: • Accounts payable

This system, developed by RealWorld, has vendor file maintenance and lists and allows entry, editing and posting of new payables, adjustments, cancellations and prepaids with edit list and journal, and on-line vendor account inquiry. The system prints the cash-requirements report, A/P checks, the check register, a report showing A/P distributions to the general ledger, the vendor analysis report, and the open-item report. Accounts Payable may be interfaced to the RealWorld General Ledger or used stand alone.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$850 - \$1250

Contact: Vern Pang

(714) 978-1212

INFORMATION MANAGEMENT ASSOCIATES, INC.

1437 W. Palmyra

Orange, CA 92668

RealWorld Software: Accounts Receivable

Operating System: UNIX* (System III, System V, Version 7)

Keywords: • Accounts receivable • Calculation aids

This system, developed by RealWorld, handles both open-item and balance-forward customers; provides maintenance and lists of both the salesperson and customer files; allows sales transactions entry, editing and posting with edit list and journal, cash receipts entry, posting with edit list and journal, and on-line customer account inquiry. The system automatically calculates and posts finance

charges with edit list and journal; controls sales commissions due; and prints the commissions-due report, the aging report, and statements.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$850 - \$1250

Contact: Vern Pang

(714) 978-1212

INFORMATION MANAGEMENT ASSOCIATES, INC.

1437 W. Palmyra

Orange, CA 92668

RealWorld Software: General Ledger

Operating System: UNIX* (System III, System V, Version 7)

Keywords: • General ledger

This system, developed by RealWorld, handles up to 13 accounting periods; supports multiple profit centers; has chart of accounts maintenance and list; and allows general journal transaction entry, editing and posting with edit list and journal, and on-line G/L account detail inquiry. The system prints the general ledger worksheet and trial balance reports, the source cross-reference report, and the financial statements in flexible, user-defined formats.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$850 - \$1250

Contact: Vern Pang

(714) 978-1212

INFORMATION MANAGEMENT ASSOCIATES, INC.

1437 W. Palmyra

Orange, CA 92668

Report Writer

Operating System: IAS, RSTS, RSX, RT-11

Keywords: • Report writer

This product allows the user to define customize reports, based on any combination of fields found in records contained in the financial data base files. Up to six data base files can be accessed at a time. Mathematical operations as well as sorting and updating actual programs can be written using the Report Writer commands. Report Writer interacts with other Armadale business packages programmed in Pascal II.

A version of this product is available for the VAX computer.

Price: \$1500 - \$3000

Contact: Michael G. Sifton
(416) 477-8000

ARMADALE SYSTEMS INC.
Toronto Buttonville Airport
Markham, Ontario L3P 3J9
Canada

Reporter

Operating System: CTS-300, RSX, RT-11

Keywords: • Forms management • Management
• Report writer

This full-featured report generator for use with any DSF software allows the user to custom design almost any type of report. When Reporter is used with the many reports supplied by DSF software, the accountant can produce a wide variety of useful management reports.

Some features of Reporter are:

- Easy-to-use menu-driven operation
- Multifile access capability
- Line-by-line report definition
- Up to nine levels of totals
- Autoformatting or user formatting of print positions of all data elements
- Run-time specification of ranges of data
- Conditional checking (greater than, less than, and so on) of data elements against a constant or other data element

Price: \$2500

Contact: Van Morris
(904) 434-2685

DIGITAL SYSTEMS, A DIV. OF UCCEL
114 E. Gregory Street
Pensacola, FL 32501

RMS-7

Operating System: RSTS

Keywords: • Banking • Credit • General ledger

ECOM Systems provide turnkey systems to credit unions. The basic credit union system provides for the processing of share, loan, and certificates. Optional modules include interface programs to general ledger, ATM (proprietary and switch), audio response, and automated share draft.

A version of this product is available for the VAX computer.

Price: \$50,000 – \$1,000,000

Contact: Jack Kreamer, Vice President
(901) 794-5501

ECOM SYSTEMS, INC.
2500 Mt. Moriah Road, Suite 720
Memphis, TN 38115

SACCPAY (Accounts Payable Package)

Operating System: CTS-300, RT-11

Keywords: • Accounts payable • Audit • Financial analysis

The Accounts Payable Package keeps track of your outstanding invoices, generates checks to pay those invoices according to various user-selectable parameters, and keeps historical records of your purchases throughout the year. An easily maintained Vendor Master File records not only the name and address but also the phone number and contact name for purchasing departments when placing orders. The package has full audit trail capabilities, as well as Aged Analysis, Open Item, and Purchasing Detail reports. Distribution and inventory codes are handled. A custom Check Printing Program can handle your complete accounts payable needs. Custom enhancements are available to "fine tune" this system to your requirements.

Price: \$3500

Contact: David Simmons
(705) 737-2011

SIGMATIC COMPUTER CORP.
89 Collier Street, P.O. Box 1046
Barrie, Ontario L4M 5E1
Canada

SACCREC (Accounts Receivable Package)

Operating System: CTS-300, RT-11

Keywords: • Accounts receivable • Audit

The Accounts Receivable Package is designed for flexibility. The invoice and cash receipt batch data entry programs give a complete audit trail, and the Customer Master File is easy to maintain. The system has an automatic service charge capability and handles debit and credit notes. The package includes a wide range of historical and sales summary reports. Division, group, salesperson, customer code, customer class, item, and invoice number in many varied combinations on the reports allow for excellent control and study of your accounts receivable. Custom enhancements are available to "fine tune" the system to your exact needs.

Price: \$3500

Contact: David Simmons
(705) 737-2011

SIGMATICS COMPUTER CORP.
89 Collier Street, P.O. Box 1046
Barrie, Ontario L4M 5E1
Canada

Safe Deposit Boxes Billing

Operating System: RT-11, TSX-PLUS

Keywords: • Banking • Billing

This program keeps track of leased and unleased safe deposit boxes and other information about them and handles status reports and billing. With this program, you can easily handle opening and closing boxes, billing and receipts, club accounts discounts, and miniaccounting for rental income, key deposits, and club discounts.

Report generation is available for leased and nonleased boxes, club account boxes, item (box #) and alphabetic listings of box holders, summary of boxes by rental amount, and journal reports of financial activity by entry number range, by date, and by account.

Price: \$1000 - \$2500

Contact: Leland T. (Tom) Smith, President
(512) 692-0953

DATA PROCESSING SERVICES, INC.
8746 Wurzbach Road, Suite 203
San Antonio, TX 78240

Sauer Library

Operating System: RSTS

Keywords: • Data base management • Inventory • Payroll

The Sauer Library is based on Key/500, the widely used data base management system. The library includes a coordinated set of accounting packages that are delivered in source code.

In addition to Key/500, the library consists of order processing, accounts receivable, accounts payable, inventory accounting, general ledger, and payroll packages. Those components may be used individually or as an integrated set.

Price: \$6000

Contact: Roger W. Gruen, Vice President
(800) 325-9494

SAUER COMPUTER SYSTEMS
1750 S. Brentwood
St. Louis, MO 63144

SGENLED (General Ledger Package)

Operating System: CTS-300, RT-11

Keywords: • Audit • General ledger

This simple-to-use package handles virtually any type of business. SGENLED has division-handling capabilities and gives two levels of audit trail: the Edit List of entries in the order of entry and the General Ledger Report of the entries by account, complete with opening and closing balances. The user can format the reporting of assets and liabilities on the balance sheet to give heading and totaling combinations. The Statement of Operations gives sales, cost of sales, income, and expense reporting the same heading and totaling capabilities. Custom "fine tuning" enhancements are also possible.

Price: \$3500

Contact: David Simmons
(705) 737-2011

SIGMATICS COMPUTER CORP.
89 Collier Street, P.O. Box 1046
Barrie, Ontario L4M 5E1
Canada

SONAK

Operating System: ULTRIX-11

Keywords: • Accounts payable • Accounts receivable
• General ledger

SONAK consists of three easy-to-use modules:

- General Ledger enables the user to set up the general ledger chart of accounts; make journal entries; run journals, general ledgers, and financial statements at any time for any period of time; and perform multiple month-end and fiscal year-end closings.
- Accounts Payable provides instruction prompting; compares new orders to original orders for price and quantity; projects future cash needs; and runs checks and creates reports for any time span, including accounts payable, balance outstanding, aged payables, and check register for paid bills.
- Accounts Receivable prints invoices, projects future cash receipts, and creates reports of the accounts receivable journal, outstanding balance, and aged receivables and cash receipts journal for bills received for any period.

SONAK was designed by business and accounting professionals and has been thoroughly tested in the business environment.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Dr. Blaine T. Garfalo
(216) 421-8737

DAYSTROM SYSTEMS, INC.
11206 Euclid Avenue
Cleveland, OH 44106

Suspense Ledgers

Operating System: RT-11, TSX-PLUS

Keywords: • Banking • Credit • General ledger
• Report writer

Accounting departments in every large institution often receive debits without credits or vice versa. Many institutions track those lone items by using suspense ledgers, which are really suspense journals. In suspense journals, lone debits are matched with entries in the credit suspense ledger, and lone credits are matched with entries in the debit suspense ledger. Books will thus be balanced until accounts can be debited or credited to match the line entries. Then the old entry is cleared from the appropriate journal, and the correct account is debited or credited. Thus, close tabs can be kept on the amount of money that is in suspense.

The Suspense Ledgers system has facilities for making entries into a ledger (on a TRX file basis), clearing entries from the ledger by entry amount and by entry number, forced clearing of entries by date, and generating reports for outstanding (uncleared) entries, cleared entries, entries in entry-clear order (each entry is followed immediately by the entry that cleared it), and aged suspense entries.

Price: \$1000 - \$2500

Contact: Leland T. (Tom) Smith, President
(512) 692-0953

DATA PROCESSING SERVICES, INC.
8746 Wurzbach Road, Suite 203
San Antonio, TX 78240

TBS Accounts Payable System

Operating System: RSTS, RSX, RT-11, TSX-PLUS

Keywords: • Accounts payable • General ledger

This system, which automatically interfaces to the TBS G/L System, maintains a full vendor file, including the alphabetical vendor list, full accounts file, and job file; has CRT entry of new payables and CRT inquiry by vendor and automatic voucher number and batch control totals; distributes payables by G/L account and optionally by job number; allows payables to be selected for payment by type or

individually, with selected items deferred; allows the use of multiple A/P, cash, and discount accounts; and contains a check-reconciliation module.

The Accounts Payable System also prints the A/P voucher register, A/P aged trial balance, A/P distribution report in detail or summary form, and the A/P job distribution, cash disbursement, and cash-requirements reports. The system also prints the check-verification report before check printing, prints checks with invoice details on the stubs, and prints the check register, which shows all computer-written, hand-written, and voided checks.

A version of this product is available for the VAX computer.

Price: \$995 - \$2500

Contact: Chuck Tebbetts
(818) 242-7981

THETA BUSINESS SYSTEMS
1110 Sonora Avenue, Suite 106
Glendale, CA 91201

TBS Accounts Receivable System

Operating System: RSTS, RSX, RT-11, TSX-PLUS

Keywords: • Accounts receivable

This system, which automatically interfaces to the TBS G/L System, includes customer account features, printing capabilities, and accounts receivable functions. The system handles open-item and balance-forward customers; provides full customer file maintenance with an alphabetical list; permits discount, tax, and finance charge percentages to be set to a standard default value or set for each customer; and provides CRT customer account inquiry.

The system also prints sales and cash receipts journals, the customer aging report in detail or summary form, the monthly sales and cash receipts summaries, and the A/R history finance charge, and salesperson commission-due reports. The system permits statements to be selectively printed with aged totals and a tear-off remittance.

Accounts receivable features include separate terms code and ship code maintenance modules and an A/R open file that contains full transaction details. The system automatically calculates and posts finance charges, permits on-line entry of cash receipts, and allows partial payments and payments to more than one invoice. Finally, the system permits on-line entry of sales, CR memos, DR memos, and manual finance charges with batch totals for control of transaction flow.

A version of this product is available for the VAX computer.

Price: \$995 - \$2500

Contact: Chuck Tebbetts
(818) 242-7981

THETA BUSINESS SYSTEMS
1110 Sonora Avenue, Suite 106
Glendale, CA 91201

TBS General Ledger System

Operating System: RSTS, RSX, RT-11, TSX-PLUS

Keywords: • General ledger

This system, which automatically interfaces to the TBS A/R, Payroll, and A/P Systems, includes user-designed features, printing functions, and general ledger tasks.

The system maintains a full chart of accounts with a 7-digit account number and a 3-digit subaccount number for profit center or cost centers; permits user-generated wording and formats on financial statements and up to 13 user-defined accounting periods; provides CRT entry of G/L transactions, which can be edited before posting and with running balance displayed during entry; allows CRT inquiry into accounts by period; and includes a recurring-entries module. The system also prints the G/L Transaction Register; the G/L Trial Balance with work space for adjustments; the G/L List, selected by account number or date with detail or summary; the G/L Analysis by source; and the Balance Sheet, Profit and Loss Statement, Supporting Schedules, and Source and Application of Funds reports.

The system automatically distributes transactions to accounts on a percentage basis, automatically generates counterbalancing entries, and handles accrual reversals.

A version of this product is available for the VAX computer.

Price: \$995 - \$2500

Contact: Chuck Tebbetts
(818) 242-7981

THETA BUSINESS SYSTEMS
1110 Sonora Avenue, Suite 106
Glendale, CA 91201

TBS Payroll Accounting

Operating System: RSTS, RSX, RT-11, TSX-PLUS

Keywords: • Payroll • Personnel • Taxes

This system, which automatically interfaces to the TBS G/L System, performs several payroll tasks and printing functions. In addition to maintaining extensive payroll and personal data, the Employer Master File in the system performs other payroll functions, such as permitting CRT entry of time worked and editing of transactions;

automatically calculating gross and net pay rates and all standard frequencies; calculating vacation, holiday, sick, and miscellaneous pay; permitting eight standard deductions, which may be prioritized and have maximum limits; and calculating FWT, SWT, FICA, FUI, city tax, and SUI. The user can use the system to reconcile outstanding checks, enter handwritten checks, and void checks.

The system can print paychecks with the Payroll Register detailing payroll calculations, the Check Register, W-2 and 941-A forms, State Tax Registers, and the Payroll History, Labor Distribution, G/L Account Distribution, and Hours History reports.

A version of this product is available for the VAX computer.

Price: \$995 - \$2500

Contact: Chuck Tebbetts

(818) 242-7981

THETA BUSINESS SYSTEMS

1110 Sonora Avenue, Suite 106

Glendale, CA 91201

TCB-11 (Time, Charges, and Billing for Professional Firms)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts receivable • Billing • Cost accounting

Distribution media: RL01, RL02, RX01.

This professional-practice management system for accounting firms provides for time, cost, and cash receipts posting by client. Work-in-process reports (prebilling ledgers) and monthly invoices are produced for each client. Accounts receivable age analysis and client statistics are provided, as well as reports about employee productivity and work/service activity. The system is usually used with Franklen's CPA-11, General Ledger/Financial Reporting System.

A version of this product is available for the VAX computer.

Price: \$4000 - \$6500

Contact: Frank J. O'Kane, President

(213) 441-3123

FRANKLEN COMPUTER SYSTEMS, INC.

715 Fremont Avenue

South Pasadena, CA 91030

THETA

Operating System: RSTS, RSX, RT-11, TSX-PLUS

Keywords: • Accounts receivable • Billing • General ledger
• Payroll

This efficient, integrated accounting system, designed by THETA Business Systems, is CRT interactive, menu driven, and easy to learn and use. THETA also enables users to make quick, low-cost modifications.

THETA consists of the Accounts Payable, Accounts Receivable, Order Entry, General Ledger, Payroll Accounting, and Time Accounting modules. General Ledger users can format many types of financial statements and run them on request. A variety of fixed formats are available, as well as several run-time options.

A version of this product is available for the VAX computer.

Price: \$595 - \$1995

Contact: Cheryl Pankratz
(714) 998-6041

MIDCOM CORP.

1940 N. Tustin Avenue, Suite 117
Orange, CA 92665

Thoroughbred Accounts Payable

Operating System: RSTS, RSX

Keywords: • Accounts payable • Data base management
• Data dictionary • Query facilities

This system can maintain up to 999,999 vendors in the Vendor Master File and generate the Vendor Master File Report automatically. The system provides vendor invoice entry and automatic updates, automatic control during data entry to ensure debit/credit balance, comprehensive file maintenance, and instant vendor and open-item inquiry at the terminal as well as hard-copy printout.

Edits and data verification can be performed on line. Complete system-generated or manual check processing is available. Payable checks are produced with check numbers and detailed payment information. Flexible invoice processing is provided for time and partial payments as well as prepaid invoices, with provision for discounts by percentage or dollar amount on invoices. The system can apply payment to the oldest invoice and offers full protection against duplication of invoice payment. Nonvendor or 1-time expenses can be entered into the system for payment distribution. The system can handle both credits and debits to a specific invoice or vendor. The system provides automatic totals on all monthly expensed payments. Reconciliation of payable checks includes registers providing outstanding and cleared-check information.

The system generates open accounts payable, cash requirements, and accounts payable aging reports by vendor or company. Control over cash allocation is provided at the individual invoice level. The system has a multiple-account aging capability for cash-flow reports, determines cash-flow requirements for approved invoice payment, provides reporting for up to 26 profit centers, and generates automatic cash disbursement reports for designated time periods. Year-to-date and prior-year expenditures are summarized for analyzing vendor activity. System-generated mailing labels are provided, as are distribution reports for both payable and payment distribution. Automatic posting of payments and invoices to appropriate general ledger accounts is provided. Each pay cycle produces a check register that is summarized monthly. Optional purchase order and general ledger interfaces and automatic audit trails are provided.

A version of this product is available for the VAX computer.

Price: \$795 - \$8000

Contact: Adrienne H. Webb, Sales Manager
(415) 798-0240

COMPUTER SYSTEMS DEVELOPMENT, INC.
300 Ellinwood Way, Suite 160
Pleasant Hill, CA 94523

Thoroughbred Accounts Receivable

Operating System: RSTS, RSX

Keywords: • Accounts receivable • Data base management
• Data dictionary • Query facilities

This cost-effective solution for measuring your company's sales performance provides timely aged management reports and statement preparation that will improve your cash flow and overall cash management. Complete open-item cash posting of credits, debits, cash, and on-account balances provides comprehensive control over receivables. Aged delinquent analysis by salesperson facilitates credit collections. Customer credit limits can be easily established to eliminate poor payers and to facilitate cash flow. File sizes are variable and expandable and are based on the user's activity. System prompts are designed for easy operator use. The system is easily installed and maintained and can be used in either a single or a multiuser environment.

The system's Customer Master File can maintain up to 999,999 customers. The system features automatic customer master file report generation, easy data entry for customer and transaction adjustments, and instant inquiry for customer status and accounts receivable information.

The system handles complete sales, sales tax, freight, cash receipts, discounts, credits, and miscellaneous accounts receivable transactions. Nine categories of nontaxable sales are offered, and multiple state tax tables apply the appropriate sales tax to an invoice. The user may select percentage or dollar amount discounts. Interest charges can be applied to past-due accounts. Partial or total payments can be applied to individual invoices, and detailed reporting is provided on outstanding invoices, with automatic generation of delinquent reports. The system prints customer statements with optional user-determined sales or reminder messages as frequently as desired, as well as complete sales analyses by customer on month-to-date and year-to-date bases. Sales commission reports are automatically produced.

Information is provided on last customer payment date and account aging by user-defined periods. The system handles miscellaneous cash receipts and can process numerous general ledger periods. Flexible processing provides for both open-item and balance-forward customers. Trial balance with options of minimum days past due, minimum invoice amount, and detail or summary are printed automatically. The system generates mailing labels and provides for multiple-company requirements. Optional order processing and general ledger interfaces and automatic audit trails are provided.

A version of this product is available for the VAX computer.

Price: \$795 - \$8000

Contact: Adrienne H. Webb, Sales Manager
(415) 798-0240

COMPUTER SYSTEMS DEVELOPMENT, INC.
300 Ellinwood Way, Suite 160
Pleasant Hill, CA 94523

Thoroughbred Fixed Assets

Operating System: RSTS, RSX

Keywords: • Data base management • Data dictionary
• Query facilities • Report writer

This system features instant asset inquiry at the terminal, automatic generation of the Fixed Asset Master Report, user-determined asset information, multiple data edit check and multiple depreciation schedules, depreciation of new assets under the Accelerated Cost Recovery System as well as standard methods, reports by asset value as well as depreciation methods, generation of intercompany transfer of assets, Added Cost reports and a Depreciation Report that summarizes current asset depreciation, and automatic audit trails. A General Ledger interface is optional.

A version of this product is available for the VAX computer.

Price: \$795 - \$8000

Contact: Adrienne H. Webb, Sales Manager
(415) 798-0240

COMPUTER SYSTEMS DEVELOPMENT, INC.
300 Ellinwood Way, Suite 160
Pleasant Hill, CA 94523

Thoroughbred General Ledger

Operating System: RSTS, RSX

Keywords: • Data base management • Data dictionary
• General ledger • Query facilities

This system provides instant General Ledger account information at the terminal or as a hard-copy printout and can handle 999,999 account numbers. Journal entry editing prevents out-of-balance posting; a Journal Activity Report based on data entry is provided. Adjustment entries eliminate the need for account editing. User-defined financial statements are generated automatically. Income Statements may be produced with either quarter-to-date or year-to-date comparisons.

General Ledger handles general ledger posting and processing on a multiperiod basis, and transactions may be purged monthly or retained for the entire year. Year-to-date and prior-year balance information is provided for each account. The system accommodates up to 26 General Ledger files, providing independent or consolidated financial reporting. A monthly General Ledger Detail Report is provided, a monthly and quarterly Trial Balance generated, and automatic balance sheet produced. The system provides Capital Statement Account reporting, Chart of Accounts reporting with option to print monthly balances, and a Budget Master Report that details budgets for the entire year. The Income Statement design is facilitated with the Format Report. The General Ledger Account Activity Report summarizes all General Ledger transactions, providing the user with an option to review all accounts or a specified range. Automatic audit trails are provided.

A version of this product is available for the VAX computer.

Price: \$795 - \$8000

Contact: Adrienne H. Webb, Sales Manager
(415) 798-0240

COMPUTER SYSTEMS DEVELOPMENT, INC.
300 Ellinwood Way, Suite 160
Pleasant Hill, CA 94523

Thoroughbred Payroll

Operating System: RSTS, RSX

Keywords: • Data base management • Data dictionary
• Payroll • Query facilities

This system's Employee Master File can handle up to 999,999 employees and can be sorted by employee number or alphabetically. The Employee Master Report includes deduction information, year-to-date and quarter-to-date information, and employee status; all data entries can be easily corrected. Payroll checks are produced automatically with check numbers, and payroll can be produced weekly, biweekly, semimonthly, and monthly. Payroll processing includes hourly, overtime, doubletime, salaried, holiday, sick, vacation, bonus, and per diem. Both multicompany and departmental pay categories are provided.

Manual and reverse check entry are available, as is automatic restart payroll check processing. Withholding schedules include federal, state, and local taxes; FICA, FUTA, SUTA, unemployment, and workmen's compensation; state tax requirements; nonresident and resident taxation; standard deductions, including medical, life insurance, savings, savings bonds, loan repayment, and garnishment; five miscellaneous deductions by percent, dollar amount, or by hour dollar amount; and flexible miscellaneous deductions. Discretionary withholding tax is provided, as is a nontaxable payroll option. The system automatically provides tax deposit schedules for federal and state taxes withheld and adjustable tax rates. The system accommodates payroll overrides and automatically generates W-2 forms and 941 information.

Payroll can report earned-income credits and has an optional general ledger interface. Flexible filing status for each tax deduction category is provided. The Time Sheet Edit report is generated automatically; the Register summarizes complete payroll data for the current cycle, quarterly, and yearly; and the Labor Distribution report summarizes payroll data by department. Workmen's Compensation reports are generated automatically, and General Ledger distribution reports by department and audit trails are also provided.

A version of this product is available for the VAX computer.

Price: \$795 - \$8000

Contact: Adrienne H. Webb, Sales Manager
(415) 798-0240

COMPUTER SYSTEMS DEVELOPMENT, INC.
300 Ellinwood Way, Suite 160
Pleasant Hill, CA 94523

Time Management and Billing

Operating System: DSM

Keywords: • Billing

This product is written in ANSI standard MUMPS and runs on a wide range of DIGITAL equipment, including micros, minis, and VAXs. This table-driven product provides the recording of work time expended against projects for various clients and multiple-billing rates and produces a worksheet, which allows modification before the automatic creation of invoices.

A version of this product is available for the VAX computer.

Price: \$8000 – \$50,000

Contact: John W. Bishop

(214) 422-1022

ANTRIM CORP.

101 E. Park Boulevard, Suite 855

Plano, TX 75074

Treasurer's General Ledger and Warrant Reconciliation

Operating System: CTS-300, RSTS, RT-11

Keywords: • Financial management • General ledger

This on-line real-time system provides the ability to enter daily transactions; print the daily statement; update funds, bank, and interim account balances; and reconcile the redeemed warrants on the auditor's outstanding-warrants list. This program's menu-driven technology creates ease of operation, provides current status of accounts, produces daily required statements automatically, and makes available through inquiry detail activity for fund, bank, or account.

The program provides file maintenance and daily activity with only one date to be entered, generates reports and updating functions on request, and performs an edit of daily transactions before updating. The program also provides monthly 7-year totals of receipts, disbursements, and transfers for each fund. The program provides monthly and yearly totals of deposits and checks for each bank and interim account.

Price: \$2000 – \$4000

Contact: James W. Sanderbeck, Vice President

(216) 489-1885

PM COMPUTER SERVICES CO.

630 – 30th Street, N.W.

Canton, OH 44709

TRON Accounts Payable

Operating System: Micro/R SX, RSTS, RSX, RT-11, ULTRIX-11

Keywords: • Accounts payable • Data base management

Distribution media: RL02, RX50.

TRON Accounts Payable and Cash Disbursements is used as a stand-alone package or with TRON General Ledger. The package features debiting and crediting to any part of the general ledger and also allows easy customization when used with our user-friendly data base manager.

As a stand-alone package, TRON AP can produce edit lists and journals for entry, editing, and posting of new payables; adjustments; cancellations; and prepayments. TRON AP prints open items, has an on-line vendor account inquiry, prints cash requirements, and has flexible payment selections, including partial payments. Vendor analysis is also a standard feature of this system.

Training is available to learn the customization process.

A version of this product is available for the VAX computer.

Price: \$800 - \$2000

Contact: Michael A. Sce, President
(718) 377-6998

SOFTWARE CONSULTING ENTERPRISES, INC.
1360 Ocean Parkway, Apt. 3H
Brooklyn, NY 11230

TRON Accounts Receivable

Operating System: Micro/R SX, RSTS, RSX, RT-11, ULTRIX-11

Keywords: • Accounts receivable • Data base management
• General ledger

Distribution media: RL02, RX50.

TRON Accounts Receivable may be used with TRON General Ledger, which efficiently performs debit and credit functions to any part of the TRON General Ledger. The package's user-friendly data base manager facilitates programming changes.

TRON Accounts Receivable includes open item and balance forward; maintenance lists; reports and statements; cash receipt entry, editing, and posting on-line customer inquiry; sales commissions; and printed reports.

Training is available to learn the customization process.

A version of this product is available for the VAX computer.

Price: \$800 - \$2000

Contact: Michael A. Sce, President
(718) 377-6998

SOFTWARE CONSULTING ENTERPRISES, INC.
1360 Ocean Parkway, Apt. 3H
Brooklyn, NY 11230

TRON General Ledger

Operating System: Micro/RSX, RSTS, RSX, RT-11, ULTRIX-11

Keywords: • Data base management • General ledger

Distribution media: RL02, RX50.

TRON General Ledger may be used with TRON Accounts Payable or Accounts Receivable, which includes all standard reporting features associated with a general ledger system, plus the added feature of easy customization. The package's user-friendly data base manager makes programming easy.

Standard formats are included for chart of accounts, worksheets, balance sheets, and net income statements. Capabilities include reviewing last year's information as well as historical records of net income statements for up to five years. Random inquiries and reports are easily accessed by a menu of user-defined selections.

Training is available to learn the customization process.

A version of this product is available for the VAX computer.

Price: \$800 - \$2000

Contact: Michael A. Sce, President
(718) 377-6998

SOFTWARE CONSULTING ENTERPRISES, INC.
1360 Ocean Parkway, Apt. 3H
Brooklyn, NY 11230

Turnkey Data

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Accounts payable • Accounts receivable
• Payroll • Sales analysis

This turnkey/data base business package for DIGITAL OEMs/distributors/end users includes all necessary programs, procedures, and start-up indirect command files to generate, run, and track a DIGITAL OEM or distributorship. The programs are written in DIBOL-11 and DECFORM and include job costing, payroll, accounts receivable, accounts payable, and general ledger.

This package enables the holder to offer clients turnkey software without leaving the office. Report programs allow the display of report information on terminal screens with 132-character display capability.

A version of this product is available for the VAX computer.

Price: \$1200 - \$8400

Contact: Peter J. Marcantonio
(518) 793-8023

EXECUDATA COMPUTER SYSTEMS

1392 Redmond Road
Gansevoort, NY 12831

UDS Accounts Payable

Operating System: CTS-300, RT-11

Keywords: • Accounts payable

This series of programs helps manage outgoing cash. When used with other modules, Accounts Payable will update general ledger, vendor, and job cost records as accounts receivable transactions are made. The Accounts Payable module also links to the vendor master module to provide control over the accounts payable function.

Invoices are entered with payment dates, discounts, and general ledger account numbers. A check of existing files before permitting entries prevents duplicate invoice entries. Trial balances feature invoices detailed by vendor. Invoice amounts are listed in columns according to age (current, 30, 60, 90, and 120 days old). Cash requirements look in the other direction in terms of invoices due in 10, 20, or 30 days. Invoices can be keyed for payment by individual invoice, vendor, age, or discount. Invoices may be paid automatically or confirmed individually by the operator. Invoices may be paid in full, in part, or marked as prepaid (if a manual check was issued). A historical file of paid invoices may be accessed on the CRT or in hard-copy form. Open invoices from the vendor, with aging data, may be displayed on the CRT.

Printing features include printing registers of entries in entry- and in ledger-account sequences. Another check register prints a record of items marked for payment and items entered or flagged as prepaid. Voucher-type checks with details can also be printed.

The vendor master module gives you instant access to your company's list of vendors and provides separate purchase order and payment addresses, contact names, each vendor's terms, a flag on whether a 1099 is required, number and value of purchase orders, open payables balance, plus number and value of purchase orders for the current and past years. The vendor master module also provides a listing of vendors requiring a 1099 and the amounts of payments made to them during the year.

A version of this product is available for the VAX computer.

Price: \$750 - \$3000

Contact: Zane R. Oaks, Marketing Manager
(513) 890-1800

PROJECTS UNLIMITED, INC.

P.O. Box 14538

Dayton, OH 45414

UDS Accounts Receivable

Operating System: CTS-300

Keywords: • Accounts receivable

Minimizing accounts receivable age can directly affect profitability. Accounts Receivable facilitates your achieving this goal. The system provides a hard-copy printout of account aging by customer, which includes customer order number, age of invoice in days, and historical average customer payment time. The CRT version includes age and purchase order of each invoice. The system also features cash-flow projection, using average payment time, to calculate in detail or by customer the cash to be received in 10, 20, or 30 days, as well as past dues and unknowns. Cash discounts and credits may be posted in part or in full, followed by a batch report. Credits may be updated and generated. A list of customers on credit hold (45 days or more) may be produced for the order department. The system also prints statements and dunning letters, tailored to 60 and 90 days, on demand.

If used with order processing, the system will be automatically updated by invoicing. When used with the other modules, Accounts Receivable will automatically update general ledger, sales records, and sales commissions files as transactions are made.

A version of this product is available for the VAX computer.

Price: \$750 - \$3000

Contact: Zane R. Oaks, Marketing Manager
(513) 890-1800

PROJECTS UNLIMITED, INC.

P.O. Box 14538

Dayton, OH 45414

UDS General Ledger

Operating System: CTS-300

Keywords: • General ledger

The complex job of period and year-end reporting is simplified with the General Ledger software module. The programs provide accurate accumulation, by individual profit centers, of your company's financial information. Some of the system's highlights are:

- Hard-copy audit trails provided as a permanent record

- Manual or automatic journal entries by programs for invoicing, payroll, accounts payable, and others, with input journal printed prior to journal updating
- Printing of a report of items in the journal before the ledgers are updated, giving a batch total as well as detail
- A month-end journal by general ledger number report that details each entry to each ledger account
- A trial balance, balance sheet, income and expense report, and profit and loss statement by subsidiary company or profit center as well as a consolidated format produced
- Duplicates of those reports with projected budgetary figures, allowing you to plan your business for the coming year and to answer hypothetical budgetary questions
- Printing of budget or actual report by company and/or by department

A version of this product is available for the VAX computer.

Price: \$1000 - \$3500

Contact: Zane R. Oaks, Marketing Manager
(513) 890-1800

PROJECTS UNLIMITED, INC.

P.O. Box 14538

Dayton, OH 45414

UDS General Ledger Accounting

Operating System: RT-11, TSX-PLUS

Keywords: • Accounts payable • Accounts receivable
• Construction • Payroll

Memory required: 128KB. Distribution media: 5¼" diskettes, RL02.

This completely integrated general accounting package, written in COBOL and based on the "Company Dollar" concept taught by the Realtors National Marketing Institute, offers accounts receivable, accounts payable, and payroll functions. The package provides total accounting for as many as nine companies, each of which may have as many as 81 profit centers. Detailed profit and loss statements, both consolidated and departmental, and consolidated and departmental income/expense ledgers are available. This package also offers a construction package, which is a job cost function for construction projects.

Price: \$3600 - \$4800

Contact: William Irwin

(404) 724-7761 or (800) 241-2404

UNITED DATA SYSTEMS, INC.

501 Greene Street, Suite 220

Augusta, GA 30901

UDS Payroll

Operating System: CTS-300

Keywords: • Employment • Payroll • Personnel

This module expedites the routine, multifaceted job of payroll accounting. The system's features include:

- Performance of all payroll functions after initial entry of attendance records either directly or through labor ticket input
- Maintenance of an employee file containing names, addresses, rates, exemptions, totals of eight deductions, and vacations
- Initiation of payroll process with attendance entry and printout of attendance register
- Calculation of complete payroll, followed by printing of registers for payroll, deductions, vacations, paychecks, and departmental distribution
- Check printing and employee file updating
- Quarterly and year-end reports — printout of 941-As, W-2s, and reports for city tax, state tax, semiannual workers compensation, and quarterly employee payroll summary
- Inclusion of many personnel-related functions
- Employee seniority, birthday, vacation status, sick-leave status, and payroll and personnel data reports
- Employee performance review schedule showing employee reviews as scheduled for any designated month
- Alphabetical employee list of names and addresses

As a single, comprehensive source for essential payroll information, the Payroll module offers a tremendous speed advantage over manual payroll processing.

A version of this product is available for the VAX computer.

Price: \$1500 – \$4500

Contact: Zane R. Oaks, Marketing Manager
(513) 890-1800

PROJECTS UNLIMITED, INC.

P.O. Box 14538

Dayton, OH 45414

UDS Purchasing Management

Operating System: CTS-300

Keywords: • Distribution • Inventory • Manufacturing
• Purchasing

This series of programs manages purchase orders from the time they are placed until all items have been completed. The system's features include:

- A purchase order entry sequence that directs the entry of the order, checks vendor terms and, if used with parts master and work-in-process modules, updates the WIP and either raw-material parts records or finished-goods items with quantity ordered, purchase order number, and price
- Printing of an order entry log and the required purchase orders, which note whether the orders are confirming a previous purchase order, so as to eliminate double shipments
- Printing of an order that is on the books or displayed by vendor
- Delivery exception, status by purchase order, completed purchase order, and open purchase order reports
- Flagging of an order received and each item as partial or complete
- Updating of work-in-process and parts master, if used with quantity received and quantity still on order
- Updating of vendor records with open purchase order balance, purchase order balance for year to date, number of open purchase orders, and number of purchase orders for year to date
- A part-search program that scans the purchase order file for outstanding orders containing a given part number
- Purchase order follow-up for late deliveries, which includes a letter asking when the order will be shipped
- A cash-flow projection based on delivery of scheduled material, as well as invoice due date, plus 30 days

The Purchasing Management module is directly linked to the vendor master module, providing another source on which to base purchasing decisions.

A version of this product is available for the VAX computer.

Price: \$1500 – \$4500

Contact: Zane R. Oaks, Marketing Manager
(513) 890-1800

PROJECTS UNLIMITED, INC.

P.O. Box 14538

Dayton, OH 45414

WIP (Work In Progress)

Operating System: RSTS

Keywords: • Accounts payable • Accounts receivable
• Cost accounting • Project management

This system allows project breakdowns by division and phase. Actuals and budgets for dollars are maintained. Holdbacks and progress billings can be handled through accounts payable (Data Key A/P) and accounts receivable (Data Key A/R), as well as labor through integration with the payroll (Data Key PAY). Various overheads (for

example, labor and material burdens) can be automatically generated, based on predetermined percentages. Reporting and inquiry capabilities include a register that provides a detailed history of each project and many summaries with a variety of formats.

Price: \$7000

Contact: Marvin Gogal, Branch Manager
(403) 464-7121

DATA KEY LTD.
2107 - 87 Avenue
Edmonton, Alberta T6P 1L5
Canada

ZIN

Operating System: ULTRIX-11, UNIX* (Version 7)

Keywords: • Data base management • Financial management
• General ledger • Spreadsheets

ZIN is a relational data base system with built-in applications. The system consists of seven standard modules — General Ledger, Accounts Payable, Accounts Receivable, Payroll, Statistical Analysis, Spreadsheet, and Fixed Assets.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$300 - \$3000

Contact: Dennis R. Thompson
(619) 283-6211

EPICOM INC.
3647 Fairmount Avenue
San Diego, CA 92105

Agriculture



Barbara Alper/Stock, Boston

ADAM (Automated Dairy and Management)

Operating System: RSX

Keywords: • Management • Production control
• Property management

This fully integrated dairy herd management system is designed to meet the current and future record-keeping needs of dairy herd managers. Developed and maintained by a staff of dairy herd management experts, ADAM maintains complete records on herd health, reproduction, and production. ADAM, available for on-farm computers or interactive timesharing on remote computers, interfaces with any manufacturer's automatic data-collection devices. This system can be interfaced with automatic milk meters and feed stalls and all the other devices being developed and announced (milk conductivity, milk or body temperature, animal activity, body weight, and so on).

ADAM interfaces electronically with Dairy Record Processing centers to allow direct input of management information and distribution of DHI results. Sire production and type proofs can be automatically updated after each USDA Sire Summary. Management reports can be customized by the user; up to 10 versions of each report may be permanently defined and generated by request. Herd summary information for the last 13 months and 2 previous years allows within-herd analysis of herd health, reproduction, production, cost, and genetic trends. ADAM has special provisions to support the special processing needs of registered breeders — complete embryo transfer, classification, registration, and pedigree capabilities are provided. Table-driven prompts and comments allow the system to be converted from one language to another in a relatively short period of time.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Roger W. Palmer, Ph.D., President
(608) 233-6484 or 231-2005

AGRICULTURAL COMPUTING AND CONSULTING
215 Lathrop Street
Madison, WI 53705

EQUUS-11

Operating System: CTS-300, RT-11

Keywords: • Billing • Information management • Medical

This complete management system for horse breeding ranches includes the following features and capabilities:

- Maintenance of horse information — sire, dam, dam's sire, date of birth, horse type, color, tag number, foal information, and so on — scheduled breeding activity, and daily activity. The daily breeding schedule is automatically prepared, based on the future-activity file and any previous activities that were rescheduled. Billing information may be entered at this time or maintained separately.
- Maintenance of breeding-activity history for each horse for as long as desired, providing there is enough disk space. History reports by individual horse or grouped by owner can be printed on request.
- Generation of acknowledgments to owner of any breeding activity.
- Calculation of daily charges and printing of invoices monthly, or on request, or at horse departure.
- Preparation of annual breeding reports, as well as certain custom reports for the major horse associations and horse-earnings reports, permitting profit analysis of each horse by comparing the lifetime earnings against cost.
- Tracking of individual horse entries into the different futurities. This subsystem will remind the owner of futurity payments and save expensive penalties. Actual check generation can be accomplished by interfacing with Accounts Payable.
- Interface to OMS's General Ledger, Accounts Receivable, and Accounts Payable systems. Payroll is also available for the ranch's expanded needs.

Price: \$4500 — \$9000

Contact: Rob Whitlock or David Darter
(405) 282-8600

OKLAHOMA MANAGEMENT SYSTEMS
8404 Blackberry Ridge
Edmond, OK 73034

Flock Modeling and Egg Production Forecasting

Operating System: RSTS, RT-11

Keywords: • Forecasting • Scheduling • Simulation

This software models the sizes, ages, and locations of flocks of pullets and laying hens. Movement of pullets into laying houses, molt dates, and sell-off dates can be entered into a model for an egg production operation, and reports showing future total egg production and charts showing flock movements can be generated from the model. Models can be run for up to four years.

Price: \$2495

Contact: David M. Perlman
(612) 546-2364

D P COMPUTER SYSTEMS
8708 Hopewood Avenue
Minneapolis, MN 55427

FPS (Fruit Packing System)

Operating System: CTS-300, RSTS, RSX

Keywords: • Accounts receivable • General ledger
• Inventory

The Fruit Packing System is designed to provide complete inventory controls from the receipt of loose fruit to packing the fruit, accounts receivables from the receipt of order to billing and issuing of monthly statements, lot settlements, and grower paybacks. Major reports include season-to-date receipts, season-to-date packout, sales analysis, packed inventory status, grower/lot settlement reports, and grower accounts — history and status.

Price: \$8000 — \$10,000

Contact: Steve Defoe

(509) 457-8161

SPINNER DATA SERVICE, INC.

P.O. Box 693

Yakima, WA 98907

HomeRange

Operating System: Independent

Keywords: • Calculation aids • Medical • Natural resources
• Statistics

Memory required: 56K bytes.

This easy-to-use program calculates the home range size (area traversed by an animal in its normal activities of food gathering, mating, and caring for young) from a series of independent observations of the animal's location. Also calculated are the utilization distribution (the probability of the animal's being located at various positions on a plane) and other useful statistics. The program contains complete documentation and references to the literature explaining the method. The program, written in a subset of "standard" Pascal, is designed to be portable and should run on a wide variety of computers. DECUS number 11-460.

Note: This program was developed on an LSI-11.

Price: \$5 — \$225

Contact: DECUS (see Introduction)

IMS-8 (Integrated Mill-Management System-8)

Operating System: TSX-PLUS

Keywords: • Financial analysis • Inventory • Order entry
• Process control

Distribution medium: RL02.

This series of modules designed for the feed grain industry provides process control, inventory control, order entry invoicing, best-cost formulation, and financial packages.

Price: \$2000 - \$50,000

Contact: LaDell Swiden

(605) 336-2750

RAVEN INDUSTRIES, INC.

P.O. Box 1007

Sioux Falls, SD 57117

Integrated Feed Mill Control System and Technical Livestock Programs

Operating System: RSX

Keywords: • Biology • Process control • Scheduling

These programs provide feed formulation systems (linear optimization) and laboratory programs for animal feed; livestock programs for dairy, pig, and poultry farms; integrated solutions to economic, biological, stock, and scheduling problems for all farms and feedmills; administration programs, such as sales order processing, purchase orders, and accounting; process control; and transport optimization.

In Europe, contact Roland Zanotelli (telephone 061 42 72 79 or Telex 63103), Format Agro-Computer AG, Grellingerstrasse 9, Postfach 235, 4020 Basel, Switzerland.

A version of this product is available for the VAX computer.

Price: \$500 - \$50,000

Contact: Bill Harrell

(912) 246-3396

AG FORMAT

P.O. Box 1866

Bainbridge, GA 31717

PBS (Produce Brokerage System)

Operating System: CTS-300, RSTS, RSX

Keywords: • Accounts receivable • Billing • Inventory
• Order entry

PBS provides inventory control and sales reporting for a fresh-produce brokerage company. Included are packages for product receipt and repackaging, order entry and billing, sales reporting and accounts receivable, and grower paybacks. Major reports include season-to-date receipts, sales analysis, inventory status, and grower accounts — history and status.

Price: \$8000 - \$10,000

Contact: Steve Defoe
(509) 457-8161

SPINNER DATA SERVICE, INC.

P.O. Box 693

Yakima, WA 98907

PFS

Operating System: TSX-PLUS, Independent

Keywords: • Production control • Quality control
• Sales analysis

Distribution medium: RL02.

This linear program and associated programs determine the best cost or least cost of feed formulations. This system, written in FORTRAN/DIBOL on TSX-PLUS, includes maintenance of nutrient, ingredient, and cost files; maintenance of product specifications, stock, and formulas; formula extension; comparative cost and parametric formulation analyses; mix sheets/mix cards; host communicating; and medication suffixes.

Price: \$8000 - \$10,000

Contact: LaDell Swiden

(605) 336-2750

RAVEN INDUSTRIES, INC.

Box 1007

Sioux Falls, SD 57117

Produce Distribution System

Operating System: RSTS

Keywords: • Billing • Distribution • Inventory
• Order entry

This system facilitates the distribution of perishable goods from order entry to billing. An inventory system and a large variety of sales and management reports are also included.

The system is designed for a fast-paced operation. Order entry is geared for next-day delivery and can handle hundreds of orders each day in a multiterminal environment. Customers can be assigned to ordered delivery routes by truck, and each customer can be tied to a data entry screen customized to the products that are ordered most frequently. Various pricing methods are available, including prices tied to market quotations, and they are computed on line so that the system is responsive to changing markets. Bills of lading and truck-loading instructions are printed by delivery day. Following delivery, every order is matched against quantities delivered. Statements

include itemized and extended delivery invoices, an invoice summary, and aged balances due. The billing system can handle chain stores, special pricing, and promotions, as well as merchandise credits and miscellaneous adjustments.

Price: \$9950

Contact: David M. Perlman

(612) 546-2364

D P COMPUTER SYSTEMS

8708 Hopewood Avenue

Minneapolis, MN 55427

TACT (Total Agribusiness Computer System)

Operating System: RSTS

Keywords: • General ledger • Inventory • Order entry
• Payroll

Distribution media: magnetic tape, RX50.

TACT is an integrated system for nutritionists, feed manufacturers, feed supplement and specialty product manufacturers, and related industries. The system consists of least-cost feed formulation, multiproduct formulation, beef and dairy systems, order entry, inventory, accounts receivable, general ledger, payroll, and accounts payable.

Price: \$4000 - \$35,000

Contact: Carol L. Adams, Vice President

(404) 458-2371

COMPUTER GENERATION, INC.

3855 Presidential Parkway

Atlanta, GA 30340

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Arts



Dan Budnik Woodfin Camp Associates

Arts

Operating System: RSTS

Keywords: • Accounts payable • General ledger
• Mailing lists • Word processing

This integrated management system for nonprofit organizations is particularly suited for the arts. The modules include fundraising, membership, subscription and single-ticket sales, collection management (art object inventory), marketing questionnaire analysis, general ledger and financial reporting, accounts payable, purchase order system with commitments reporting, payroll, fixed-asset accounting, and budgeting.

The software, written in BASIC, requires 2MB to 4MB a module for disk storage of the programs. All programs require less than 32K main memory to run.

The systems have flexible report writers allowing the user to design forms, letters, and reports and to implement them easily. All programs are table driven. FSORT/SELECT is used for extremely fast sort and selection response times.

A version of this product is available for the VAX computer.

Price: \$5000 – \$20,000

Contact: Robert W. Hunt
(206) 328-3100

ROBERT W. HUNT & ASSOCIATES
1502 Lake Washington Boulevard South
Seattle, WA 98144

LEONARDO

Operating System: UNIX* (Version 7)

Keywords: • Accounting • Data base management
• Forms management • Inventory

LEONARDO is a turnkey fine art inventory management system with multiuser capabilities. Designed for art galleries, art dealers, and museums, LEONARDO serves businesses that handle large inventories of unique items. The system includes a complete forms driver data base system that is customized to the specifications of the purchaser. The system maintains inventory, invoice, accounting, and client files. File configuration allows multiattribute retrieval. For example, clients may be retrieved by name, address, artist interests, recent contacts, and/or recent sales to target potential customers for specific works of art.

Files may be fully cross-linked — for example, inventory items listed by purchaser, clients listed by all purchasers. Inventory and client files can also be integrated with ledger files, so that single operations can update all related items in client, inventory, and ledger files.

Accounting, which conforms to FSAB standards, includes accounts receivable and payable, profit/loss, and trial balance. Word processing with mail merge capabilities is included.

The system supports fully protected, concurrent access to all files, with dynamic incremental backup on floppy disk.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$15,000

Contact: Margaret Jensen, President
(804) 971-7987

ALBEMARLE FINE ART RETRIEVAL GUILD, INC.
P.O. Box 3116
Charlottesville, VA 22903

Construction



Black Star Publishing Company/John G. O'Connor

AGGDISS

Operating System: RSTS

Keywords: • Billing • Distribution • Production control
• Scheduling

AGGDISS is designed to aid sales, production, weighing, dispatching, and subsequent invoicing in the aggregate and asphalt industries. This aid is accomplished through order entry, weighing, ticketing, production reporting, scheduling, and invoicing. The system can interface to most other accounting systems and computers for invoicing.

Price: \$5000 - \$40,000

Contact: James R. Wagner
(612) 559-4132

ADVANCED CONTROL SYSTEMS
13809 Industrial Park Boulevard
Minneapolis, MN 55441

Builder (Homebuilders System)

Operating System: CTS-300, RT-11

Keywords: • Cost accounting • Real estate

This residential-contractor system monitors costs of material and labor and applies them against each lot and unit. Cost reports can be obtained at any time, comparing costs to budget and other like models.

A complete buyer profile analysis is built into the system to assist in future advertising plans.

A version of this product is available for the VAX computer.

Price: \$5000 - \$10,000

Contact: Nigel Harris
(613) 829-8888

HARRIS COMPUTER SYSTEMS
16 Credit Union Way
Nepean, Ontario K2H 8R6
Canada

CN-11 (Job Cost)

Operating System: Micro/RSTS, Micro/RSX, RSTS

Keywords: • Accounting • Cost accounting
• Project management • Report writer

Distribution media: 800/1600/6250 bpi magnetic tape, RK07, RL02, RM03, RX50.

This layered package requires the PY-11 Payroll, the GL-11 General Ledger, and the AP-11 Accounts Payable systems as a base. These four packages work together to provide the user with a complete method of posting job cost information to projects and cost centers. Other user-oriented features include:

- User-defined project codes with up to 15 characters and an unlimited number of user-defined cost centers allowed
- Only one entry required to post an invoice to AP-11 Accounts Payable and to distribute the costs to cost centers and projects
- Payroll information distributed from the PY-11 Payroll system on an employee basis to cost centers and projects
- Manual postings allowed
- Transfers between projects and cost centers allowed
- Estimates for projects and cost centers may be posted
- Reports in detail or summary for a range of projects and an unlimited date range
- An audit trail for all entries provided by transaction journals
- A password security system
- Interfaces to the AP-11 Accounts Payable, PY-11 Payroll, and GL-11 General Ledger; other complementary products include the AR-11 Accounts Receivable, FA-11 Fixed Assets, OE-11 Order Entry, and IC-11 Inventory Control systems

CN-11's reports include a project cost analysis; a cost center analysis; a labor, materials, and subcontract report; and project and cost center listings.

The CN-11 user's guide includes information for the office manager, the terminal operator, and the application supervisor. The reference manual provides information on installation procedures, program flows, and data formats for the system manager and programmers.

A version of this product is available for the VAX computer.

Price: \$6000 - \$10,000

Contact: Sales Department
(806) 792-3785
COMPU-SHARE, INC.
3824 50th Street
Lubbock, TX 79413

Cobra

Operating System: RSX

Keywords: • Calculation aids • Graphics • Simulation
• Structural engineering

This program, developed by J.T. Ltd., is for the analysis, design, and detailing of reinforced concrete beams in accordance with CP110. The system produces design calculations, reinforcement fixing details, and bar-bending schedules when given the beam dimensions, span

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lengths, and loads. The three phases of analysis, design, and detail are automatic, with optional manual intervention at each stage. Cobra produces shear and moment envelopes for each beam, arrangement of bars at supports and spans, and drawings of the reinforcement fixing details.

The program is written in FORTRAN; the smallest configuration required is a MicroPDP with disk, terminal, printer, and plotter.

A version of this product is available for the VAX computer.

Price: £7500 – £15,000

Contact: Trevor Lightburn
(0332) 31517

CAMIC LTD.

47 Bridge Street
Derby DE1 3LB
United Kingdom

COMADS (Computer-Aided Dispatching)

Operating System: RSTS

Keywords: • Inventory • Order entry • Production control
• Scheduling

COMADS is designed to aid sales and bidding, dispatching, production, and subsequent invoicing in the ready-mixed concrete industry. This aid is accomplished through order entry, ticket generation at the proper plant, production reporting, scheduling, and dynamic truck tracking. Truck status can be received by means of a mobile signal system mounted in each truck. The system can interface to most other accounting systems and computers for invoicing.

Price: \$5000 – \$100,000

Contact: Jim Wagner, President
(612) 559-4132

ADVANCED CONTROL SYSTEMS

13809 Industrial Park Boulevard
Minneapolis, MN 55441

Constructimate

Operating System: RSTS, RSX, RT-11, TSX-PLUS

Keywords: • Accounting • Cost accounting
• Project management • Scheduling

Distribution media: RL02, RX02.

This accurate, efficient, and comprehensive construction management system can be configured for both residential and commercial contractors. The system's modules are job costing, standard costing (for home builders), cost estimating (for general contractors), critical-path management, general ledger, payroll, accounts receivable, and accounts payable.

The integrated menu-driven system eliminates manual postings for each module. Accounts payable and payroll entries update both job costing and financial reports, and posting to multiple profit centers, jobs, and phases is accommodated. Historical job costing data is displayed for comparison while preparing estimates.

Besides the standard accounting reports are the job cost and projected cost reports, job contract summary, application for payment, model and option estimate listings, standard job cost listing, historical cost analysis report, job estimate report, final estimate report, critical-path chart, and critical-path bar graph.

A version of this product is available for the VAX computer.

Price: \$6000

Contact: Dwight Johnson
(303) 574-8086

PROFESSIONAL COMPUTER SERVICES
2345 N. Academy Boulevard, Suite 209
Colorado Springs, CO 80909

ConTrac®

Operating System: RSTS

Keywords: • Accounting • Cost accounting • Payroll
• Project management

Distribution medium: magnetic tape.

This customized construction management and accounting system provides contractors with detailed information on job billings, comparison of job billing to cost, purchase order status by job and vendor, job-complete percentage and remaining cost, tracking of committed dollars against purchase orders and bids by type of job, invoices by job and vendor, vendor payment history, and job cost estimating. ConTrac offers a payroll with provisions for job deductions, union benefits, standard deductions, and benefits. Individual project managers have flexibility of inquiry, separate operators have simultaneous access to common files, all files are protected by password, equipment can be transported to job sites, and unlimited upgrade capability and a word processing package are provided.

The system consists of DIGITAL processors, CRTs, printers, controllers, and disk drives in tandem with exclusive ConTrac system software. The application programs are built around a data base management file structure, allowing DBMS to be added later with full integration. Also available are an integrated electronic spreadsheet and word processor. Customers receive one week of computer instruction for up to three employees and are offered a maintenance contract for both hardware and software.

A version of this product is available for the VAX computer.

Price: \$3000 - \$25,000

Contact: Richard B. Carroll
(214) 484-9709

CONSTRUCTION COMPUTERS, INC.

2081 Hutton, Suite 107

Carrollton, TX 75006

Contractor Management System

Operating System: CTS-300, RSX, RT-11

Keywords: • Accounting • Management • Payroll
• Purchasing

This comprehensive system provides total management control over job costing and the related contractor payroll functions. The complete flexibility and simplicity of the system allow in-house use by all phases of the contractor market. The fully integrated system allows updating of all phases of job cost information, check writing for payroll, and report generating, both for job costing and for payroll-related reports.

The system allows an unlimited number of jobs and classifications. Payroll may be distributed by department, job, federal labor classification, cost code, and source. Plus, the system provides multiple occupational rates for state and federal jobs, other multiple pay rates, overtime rates, deductions, and union burdens. The system also calculates taxes and workmen's compensation and prints government forms, such as W-2s and 941s.

For job costing, the system provides flexibility in formatting jobs and cost breakdowns, the ability to track both units and dollars for each job breakdown, and 16 types of job cost reports, with numerous run-time selection options. The system prints budget to actual, including the respective variances and percent complete figures for each job phase.

The system automatically posts the payroll module to the general ledger and job cost modules. Plus, job cost information is updated automatically from accounts payable, accounts receivable, equipment cost, and purchase order. The system allows complete editing and audit trail of journalizing for verification prior to posting to permanent records.

The Contractor Management System consists of the basic general ledger program, job cost (which includes a payroll module), accounts payable, loan amortization, and fixed asset accounting (depreciation). An optional interface to job cost is available with purchase order, accounts receivable, equipment cost, and bank reconciliation.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Bob Sprowls

(904) 434-2685

DIGITAL SYSTEMS, A DIV. OF UCCEL

114 E. Gregory Street

Pensacola, FL 32501

CPM (Critical Path Method)

Operating System: RSTS, RSX

Keywords: • Civil engineering • Project management
• Scheduling

Distribution media: 9-track 800/1600 bpi magnetic tape, RL02, TU58 DECTape II cartridge.

CPM computes critical path for medium-size to large construction projects with a maximum of 1000 individual tasks. CPM sorts by early and late starts, early and late finishes, total float, bid items, and sequentially. Dollar values for each task and the total for the project are printed by option.

A version of this product is available for the VAX computer.

Price: \$995

Contact: Lyman E. Byrd, Director of Operations

(800) 368-4203

TECHNICAL INFORMATION SYSTEMS, INC.

116 W. Plume Street

Norfolk, VA 23510

Equipment Cost

Operating System: CTS-300, RSX, RT-11

Keywords: • Billing • Cost accounting • Maintenance
• Management

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This system is designed to assist a contractor in maintaining control of vehicles, equipment, and tools by providing information on revenue, cost, and maintenance scheduling. The system is interfaced to general ledger, job cost, and job cost payroll modules.

Some of the significant features are:

- User-defined revenues and costs
- Ten user-defined fields in the equipment master file in addition to standard items
- Multiple billing rates for each piece of equipment
- Rental billing capability by hour, day, week, or month
- Maintenance scheduling by dates or units
- Numerous management reports with variable sort features

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Bob Sprowls

(904) 434-2685

DIGITAL SYSTEMS, A DIV. OF UCCEL

114 E. Gregory Street

Pensacola, FL 32501

Estimating System

Operating System: RT-11

Keywords: • Architecture • Bill of materials
• Civil engineering • Project management

This easy-to-use system prepares estimates, tenders, and bids based on bills of quantities for building contractors. The Estimating System can also be used for cost planning early in a project, preparing bids for contracts, and valuing work and estimating costs once the project is under way. The system contains a price book with plant, labor, and material prices and subcontract and notional rates for similar work executed on previous projects.

Project Software has subsidiaries and distributors in the United Kingdom, United States, South Africa, Australia, and other parts of the world. In the United States, contact John Gillespie (212) 624-2587, Project Software Inc., 257 Hicks Street, Brooklyn, NY 11201.

A version of this product is available for the VAX computer.

Price: £5000 - £7500

Contact: Martin Barnes, Director

(061) 439-6639 or Telex: 666650

PROJECT SOFTWARE LTD.

Foden Lane, Woodford

Stockport, Cheshire SK7 1PT

United Kingdom

ETAKE 2 (Estimating, Takeoff, and Pricing System)

Operating System: RSX

Keywords: • Cost accounting • Electrical • Engineering
• Sales analysis

This system for general and electrical contractors includes four modules for takeoff, job pricing and reporting, estimating utilities, and system logoff and wrapup. An optional module, bid closing, assists the contractor in organizing and analyzing bids from subcontractors. The user may customize the system and control all data records.

A version of this product is available for the VAX computer.

Price: \$6700 – \$12,000

Contact: Robert Sprowls
(800) 874-2400

DIGITAL SYSTEMS, A DIV. OF UCCEL
114 E. Gregory Street
Pensacola, FL 32501

FACS — Job Costing

Operating System: RSTS

Keywords: • Cost accounting • Financial analysis
• Report writer

This package can be tailored to the requirements of the largest general building contractor business or the solely owned subcontractor company. The system features direct interface to the FACS G/L, FACS Payroll, and FACS A/P; immediate detail on the progress of each project; flexible input, reporting, and maintenance of estimates, budgets, and change orders; job accounting on either a completed contract or a percentage of completion method; variance analysis on budget, committed, and forecast for amounts, units, hours, and unit costs; and interface to subcontractor's subsystem and the purchase order subsystem.

Reporting features include full, flexible reporting on direct costs, labor, purchase orders, subcontractors, and overhead in summary or in detail; full labor cost analysis annually, monthly, or for each payroll period for amounts, units, hours, and unit costs; project cost ledger for month or project-to-date detail; project comparison reporting for sales price, drawn to date, and cost to date; and user-defined job costing reports with the ability to include purchase orders. All reports can be printed to the screen or to a hard-copy device.

A version of this product is available for the VAX computer.

Price: \$2000

Contact: Steven L. Buth
(509) 624-4248

SPOKANE COMPUTER SERVICES, INC.

West 915 Second Avenue
Spokane, WA 99204

INTEREST (Interactive Estimating)

Operating System: RSX

Keywords: • Civil engineering • Cost accounting

This interactive system enables building and civil engineering contractors to accrue rates from first principles and use stored cost and performance data. INTEREST produces priced bills of quantities and a series of reports for the tender meeting and is used in cash flow forecasting, planning, valuation, and costing. INTEREST allows the user to add a time element to each activity and, with existing stored data, produce cash flow analysis and bar chart activity reports.

A version of this product is available for the VAX computer.

Price: £8000 – £10,000

Contact: Trevor Lightburn
0332 31517

COMPUTER AIDED MANAGEMENT IN
CONSTRUCTION LTD.

47/49 Bridge Street
Derby DE1 3LB
United Kingdom

JCA (Job Cost Accounting)

Operating System: RSTS

Keywords: • Architecture • Cost accounting
• Project management

This budget analysis and management control tool for architects and development firms provides cost controls and accurate accounting and analysis. JCA can track phases and tasks of a job from design to completion; compare job cost estimates to actual expenditures for phases and tasks; track add-on costs and overhead-per-hour costs; indicate total billed and paid to date with timely job inquiry; interact with accounts receivable, accounts payable, general ledger, and payroll systems; and automatically write payable checks and provide invoices.

A version of this product is available for the VAX computer.

Price: \$1500 - \$20,000

Contact: William R. Paschal, Jr.

(405) 843-7323

DATATEK CORP.

818 N.W. 63rd

Oklahoma City, OK 73116

Job Costing

Operating System: CTS-300, RSTS, RT-11

Keywords: • Cost accounting • Project management

This flexible system for construction companies, specialty fabricators/erectors, and project managers provides up-to-date job information, reports on performance and costs, and provides a cost and unit breakdown of the cost elements. Both actual and interim costs are processed. Information is provided for performance analysis and detail costs, including units, unit and lot costs, budgets, variances, current and projected margins, and more. The system features multicompany concept, unique job setup, job cost elements, early/prior-period entries and adjustments, full function and performance reporting, reporting flexibility, data base concept, full inquiry capability, interface to other systems, and information updating.

A version of this product is available for the VAX computer.

Price: \$5000 - \$15,000

Contact: Tom Muskiluke

(519) 893-4200

DIGITAL BUSINESS COMPUTERS

133 Manitou Drive

Kitchener, Ontario N2C 1L4

Canada

PCM (Project Cost Model)

Operating System: RSTS, RSX, RT-11

Keywords: • Architecture • Civil engineering
• Project management • Simulation

This project management system provides project managers with a tool for integrated project control of time, money, and resources. PCM includes facilities for planning, critical-path network analysis, resource allocation, scheduling, cost control, and cash-flow forecasting. Modules for each of those functions are available separately if required. A comprehensive range of printed and plotted reports, such as project network drawings, bar charts, and histograms, are available with very selective reporting options.

PCM can be used with equal facility by project promoters, project managers, designers, and construction contractors to prepare estimates, monitor progress, and plan remaining work on a project. PCM is particularly effective when a forecasting and decision-making support tool is required. PCM allows forecasts of the consequences of alternative courses of action to be provided before project management decisions are taken.

Project Software has subsidiaries and distributors in the United Kingdom, United States, South Africa, Australia, and other parts of the world. In the United States, contact John Gillespie (212) 624-2587, Project Software Inc., 257 Hicks Street, Brooklyn, NY 11201.

A version of this product is available for the VAX computer.

Price: £5000 - £20,000

Contact: Martin Barnes, Director

061-439 6639 or Telex: 666650

PROJECT SOFTWARE LTD.

Foden Lane, Woodford

Stockport, Cheshire SK7 1PT

United Kingdom

PRODAT (Project Day Computation)

Operating System: RSTS, RSX

Keywords: • Civil engineering • Project management
• Scheduling

Distribution media: 9-track 800/1600 bpi magnetic tape, RL02, TU58 DECtape II cartridge.

PRODAT computes the dating sequence for any construction-project duration, considering holidays, overtime, and so forth. Output depicts the entire project and the relationship of the nth day of the project to the calendar date. Leap years are considered. PRODAT is written in ANSI (1966) FORTRAN IV.

A version of this product is available for the VAX computer.

Price: \$200

Contact: Lyman E. Byrd, Director of Operations

(800) 368-4203

TECHNICAL INFORMATION SYSTEMS, INC.

116 W. Plume Street

Norfolk, VA 23510

Purchase Order System

Operating System: CTS-300, RSX, RT-11

Keywords: • Cost accounting • Financial management
• Purchasing

This flexible, comprehensive module is designed to interface to the accounts payable, general ledger, and job cost modules in the Contractor Management System.

Some of the features are:

- Up to 99 line items for each purchase order, with each line item assigned to a vendor and charged to a job, category, class, and source
- Individual item status maintained and indicated by open, received in full, partially received, or canceled
- Units on order, unit cost, description, and inventory number maintained
- Flexible report capabilities by job, vendor, issue, or delivery date
- Committed-cost reporting
- Automatic posting to job cost, accounts payable, and general ledger as items are received

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Bob Sprowls

(904) 434-2685

DIGITAL SYSTEMS, A DIV. OF UCCEL

114 E. Gregory Street

Pensacola, FL 32501

WORK-PAC

Operating System: RSTS

Keywords: • Production control • Project management

WORK-PAC, an effective labor planning and control system, uses the work package concept for project work authorization and applies statistical techniques to automate job progress, final work-hour cost projections, and trend analysis. A user-oriented system, WORK-PAC offers many features for quick and easy development and update of work packages. Input in the form of budgeted and scheduled work may be cataloged by any combination of section, zone, work center, or trade. Reports can be produced for any of those categories.

- Project features include project identification and direct timecard updating, summary and detail-level reporting, and an option that conforms to the U.S. government cost schedule performance criteria. Some data elements of the reports include budgeted cost of work scheduled and performed, actual cost of work performed, current progress, current work hours ahead/behind schedule and

budget, total work hours budgeted, estimated total work hours at completion, and estimated total work hours saved/lost at completion.

- User features include easy package development and modification, error detection for complete data accuracy, labor loading and leveling, automated physical progress assessments, and final-cost projections.
- Technical features include an unlimited number of projects/system and work packages/project. The maximum number of trades for each work package is 25; for each system, 100. WORK-PAC can also process special work packages such as time-phased, distributed, rework, and change orders.

A version of this product is available for the VAX computer.

Price: \$11,500 - \$30,000

Contact: Frank Weston

(301) 263-8593

SPAR ASSOCIATES

927 West Street

Annapolis, MD 21401

Distribution



Jeff Albertson/The Picture Cube

Accountant II Inventory Control System

Operating System: RSX

Keywords: • Inventory • Purchasing • Warehousing
• Wholesale

This system, which works with the Accountant II Order Entry System, monitors the movement of merchandise from ordering to receiving. The system features inquiry capabilities that let you display merchandise on hand and on order, quantity allocated to unshipped orders, pricing, costs, and vendor information; a purchasing and receiving function that accepts order information, prints purchase orders, tracks the orders, and updates inventory; a physical inventory subsystem that reports physical inventory data; standard reports that monitor inventory levels and movements for management; and a low-inventory-level report, inventory movement (detail and summary) report, omission reports, purchase orders, open purchase order lists, receiving reports, and physical inventory reports.

A version of this product is available for the VAX computer.

Price: \$2000 - \$3000

Contact: Richard Northrup, Sales Director
(212) 221-2517

COMPUTRON BUSINESS SOLUTIONS, INC.
701 Seventh Avenue, Suite 9W
New York, NY 10036

Accountant II Order Entry System

Operating System: RSX

Keywords: • Billing • Order entry • Point of sale
• Wholesale

This system includes inventory allocation, invoicing, automatic back ordering, variable pricing, and prebiling or postbiling operations. The system provides for variable discounting structures, special pricing, separate bill-to and ship-to addressing, variable salesperson commissions, and special terms. Normal default options established for each customer can be changed at order entry time for a particular order. All orders are verified against available inventory at order entry. Out-of-stock conditions are immediately known so that substitutions can be made. All items ordered are reserved to prevent over-allocation of stock. The system provides warehouse picking documents, including a short-form Straight Bill of Lading, invoices; open-order lists, daily invoice registers; and out-of-stock reports.

A version of this product is available for the VAX computer.

Price: \$2000 - \$3000

Contact: Richard Northrup, Sales Director
(212) 221-2517

COMPUTRON BUSINESS SOLUTIONS, INC.
701 Seventh Avenue, Suite 9W
New York, NY 10036

ACUITY Customer Order Processing

Operating System: UNIX* (System III, System V, Version 7)

Keywords: • Billing • Credit • Order entry • Purchasing

ACUITY Customer Order Processing provides both 1-pass customer invoicing and 2-pass customer order entry with separate billing. Integrated with ACUITY Inventory Management, this on-line ordering system docks the inventory as the customer order is processed. Credit checking is also provided on line. The system allows blanket orders and can consolidate orders. It prints order acknowledgments, picking tickets, and invoices. Back orders can be automatically filled, and prices can be handled through flexible codes based on customer numbers, customer types, quantity ordered, product categories, item numbers, and/or special sale prices. Additional features include flexible pricing and discounts, selective and partial billing, multiple ship-to addresses, customer order status reports, and detailed sales history reports.

Designed for companies ranging from 5 to 2000 employees, ACUITY Financial Software offers sophisticated audit trails, security by application and by user, local printer support, and TTY handler for Packet Switched Networks (such as TELENET). Computer Cognition supports end users with a 1-year warranty, with maintenance available thereafter. Installation, training, and customization are available.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$1500 - \$9500

Contact: Sherrell Harper
(619) 474-2010

COMPUTER COGNITION
225 W. 30th Street
National City, CA 92050

ACUITY Inventory Management

Operating System: UNIX* (System III, System V, Version 7)

Keywords: • Inventory • Manufacturing • Warehousing
• Wholesale

This comprehensive multiple company and multiple warehouse tool is applicable to both manufacturing and distribution inventories. The system includes an ABC Analysis Report with optional update of inventory classifications. The Usage Exceptions Report compares actuals to forecasts. Inventory Management allows warehouse transfers, issues, and receipts and provides physical count tag support and cycle counting worksheets. The Inventory Stock Status Report shows the location of all inventory.

Additional features include automatic calculation of recommended minimum-order quantity; automatic calculation of average usage per period, which is used to forecast needs; user-set economic order quantity; automatic calculation of safety stock on the customer service level entered by the user on each item; and purchasing or manufacturing unit of measure, with a conversion factor between the purchasing and stocking units of measure, status code, stocked yes/no, cycle count code, and so on.

Designed for companies ranging from 5 to 2000 employees, ACUITY Financial Software offers sophisticated audit trails, security by application and by user, local printer support, and TTY handler for Packet Switched Networks (such as TELENET). Computer Cognition supports end users with a 1-year warranty, with maintenance available thereafter. Installation, training, and customization are available.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$1500 - \$9500

Contact: Sherrell Harper
(619) 474-2010

COMPUTER COGNITION
225 W. 30th Street
National City, CA 92050

AIM/FOD (Accounting Information Manager for Fuel Oil Delivery)

Operating System: BOS/5

Keywords: • Accounts receivable • Petroleum • Wholesale

Memory required: 64K. **Distribution media:** 5¼" or 8" diskettes.

Designed for use by small fuel oil delivery companies, the flexible, easy-to-use AIM/FOD system includes all accounts receivable operations, with open-item and/or balance-forward accounting, and contains delivery tickets operations suitable for ticketing by degree day or by calendar day. This multiuser system can interface with an inventory system. Complete user documentation is provided.

Access to all AIM programs is password protected.

Price: \$2400

Contact: Maria Rich

(315) 337-1000

MULTICEPT CORP.

1721 Black River Boulevard

Rome, NY 13440

Apparel Master™

Operating System: UNIX* (System V, Version 7), XENIX

Keywords: • Accounting • Manufacturing • Sales analysis
• Wholesale

This apparel distribution and accounting system for wholesalers, importers, and manufacturers offers order entry, pick and pack, shipping and invoicing, and sales analysis. Size/style/color/season/multiple bill-to, ship-to, and so forth are provided. Optional accounting modules include accounts receivable, accounts payable, and general ledger. This system automates the distribution cycle from receipt of goods to accounts receivable. The software is available for most mini- or microcomputers.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$5000 - \$15,000

Contact: Matthew B. Brosious

(212) 221-3016

COMPUTER MASTERS INTERNATIONAL CORP.

39 West 38th Street

New York, NY 10018

APPGEN Inventory/Order Entry

Operating System: UNIX* (Version 7), XENIX

Keywords: • Inventory • Order entry • Purchasing
• Warehousing

This system handles inventory by automatically generating information, providing a comprehensive master file, and allowing flexible pricing. This system interfaces to the Accounts Receivable system.

Inventory Management can perform multiwarehouse and company-wide tracking and can generate back-order information by item and customer. The system lists same-as, alternate, and complementary items. Invoices, credit memos, and picking tickets are generated as needed. Sales reports include sales analysis by product category, customer name or type, salesperson, or state and purchasing advice reports based on reorder level and quantity, including lead times and

cycle turnover data. Other reports include an on-demand report of the cash value of present inventory, a stock status and history report, a stock status inquiry, and packing lists by picking sequence.

The master file handles quantity on hand, which is updated as stock is increased or depleted, receipts, transfers in and out, and returns. Sales quantity, physical adjustments, committed quantity, on-order, dollar sales, and cost of sales are also included.

A flexible pricing ability allows automatic recalculation of average cost of inventory items when new receivings are entered. Plus, virtually unlimited price class coding is provided at the inventory-item and customer-classing levels. The system prints multiple price lists and automatically performs rollover on effective date for new pricing.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$600

Contact: Steve Thomas, Vice President, Marketing

(713) 974-2298 or (800) 231-0062

SOFTWARE EXPRESS

2925 Briarpark Boulevard, 7th Floor

Houston, TX 77042

Automatic Business Control System

Operating System: RSTS

Keywords: • Cost accounting • Forecasting • Inventory
• Purchasing

This system forecasts, plans, and controls sales, inventories, and procurement of all salable (inventory) items. A monthly detail of all transactions, which affect inventory balances (sales, receipts, transfers, and adjustments), is maintained for all inventory items. A plan and forecast are automatically reset for each item monthly, and a buying plan is automatically reset weekly.

The system writes purchase order records for all stock items, prints a line-buy weekly summary, prints purchase orders after buyer approval, and writes an accounts payable transaction record in abeyance of receipt of material and vendor invoice. The Automatic Business Control System posts and distributes vendor invoice and associated freight charges to general ledger (inventory) accounts, produces A/P "open item" and G/L account distribution detail records, and maintains a 2-year sales forecast, inventory, and procurement (requirements) plan for each stock item.

The system offers many reports, a line-buy plan for the next three months (monthly), instantaneous gross cash flow (monthly), and a product-requirements plan for the next four quarters (quarterly).

Price: \$100,000 - \$500,000

Contact: Robert G. Donkin, President & ABC Systems Engineer
(918) 627-6214

AUTOMATIC BUSINESS CONTROL SYSTEMS
5408 East 38 Street
Tulsa, OK 74135

BICAR (Billing, Inventory Control, and Accounts Receivable)

Operating System: CTS-300, RSX, RT-11

Keywords: • Accounts receivable • Billing • Inventory
• Sales and marketing

This generalized menu-driven software package, performing billing, inventory control, accounts receivable, and sales analysis, is highly operator oriented, with many operator-controllable options and extensive data entry verification checking. Designed for small businesses, the package is configured such that implementation may consist of specific function modules, such as billing or inventory control, or may comprise the total package.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: John T. Rasted
(203) 265-2226

SOFTWARE DYNAMICS, INC.
1000 Yale Avenue, P.O. Box 500
Wallingford, CT 06492

CAPE-PACK (Computer-Assisted Packaging Evaluation)

Operating System: RSTS, RSX

Keywords: • Manufacturing • Materials handling

PALLET/STRENGTH provides efficient pallet patterns and shipping case board-grade combinations that meet pallet-handling and stacking-strength requirements. PALLET/STRENGTH allows you to increase pallet load use, reduce shipping and distribution costs, analyze load strength, select board-grade and flute type, and plot to scale pallet pattern diagrams. Stacking strength is computed, using IPC (Institute of Paper Chemistry) equations and is adjusted on the basis of magnitude of pallet overhand, pallet patterns, and relative humidity.

ARRANGE2 provides internal packing counts and arrangements in a case while meeting palletizing objectives. Alternative count or arrangement may reduce material costs and increase pallet load use without changing the package size. ARRANGE2 allows you to select case arrangements, evaluate case counts, plot arrangement displays,

increase pallet load use, and reduce material and distribution costs. Solution reports are produced on the basis of pallet load utilization and/or material cost.

DESIGN2 provides package designs (cartons, bottles, shippers, and so on) that meet marketing, packaging, material handling, and distribution costs. English and metric versions are available. On command, DESIGN2 can produce package size, internal packing arrangement, and pallet pattern loads that are clampable with a fork truck squeeze attachment. Cost contours are produced for different package sizes.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: William J. Rehring

(214) 680-1000

COMPUCON, INC.

P.O. Box 401229

Dallas, TX 75240

CAPE-SPECS (Computerized Packaging Specification System)

Operating System: RSTS, RSX

Keywords: • Data base management • Materials handling

SPECS is a comprehensive management system for creating, modifying, storing, and retrieving packaging specifications. Customized reports and specification sheet formats are available. Generic packaging information is stored and automatically included on specifications.

SPECS is an interactive system allowing the user to select alternative strengths, styles, and designs from a stored menu. SPECS provides extensive error checking and a cross-referencing search and retrieve function for cross-referenced data from all package components. On-line multiplant/multidepartment communication is featured. An optional graphics package is available for storing engineering drawings for each package specification. The system can store all historical, current, and pending specifications. Optional programs are available to supplement the engineering and manufacturing office environment.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: William J. Rehring

(214) 680-1000

COMPUCON, INC.

P.O. Box 401229

Dallas, TX 75240

Computer Accounting and Management System for the Distribution Industry

Operating System: RSTS

Keywords: • Inventory • Order entry • Sales and marketing
• Warehousing

This interactive software system supports an on-line multilocation distributed processing operation. With complete dependence on menu displays and operator prompting, this user-friendly system performs order entry, inventory control, accounts receivable, accounts payable, general ledger, sales analysis, payroll, fixed assets, mailing lists, and word processing functions. These fully integrated modules are written in high-level COBOL and can easily be customized.

The CRT video display is the focal point of the system. Operators can perform all the system functions on any CRT display. Security measures are available to limit access to sensitive areas within the system. Information inquiries, data entry, and report generation functions can be handled concurrently, as needed, from work stations in the central office or at remote locations.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Michael Hansen, Marketing
(404) 399-6325

CMCS — COMPUTER & MANAGEMENT
CONSULTANT SERVICES
1155 Hammond Drive, Suite 5220
Atlanta, GA 30328

Control

Operating System: CTS-300, RSTS

Keywords: • Accounting • Inventory • Report writer
• Wholesale

Distribution media: RC25, RK06, RL02.

This series of programs provides order entry, picking, truck routing, route reconciliation, invoicing, inventory control, accounts receivable, purchasing, sales commissions, loan equipment control, cash and carry, and a wide variety of analysis reports that track sales, profit, and unit movement — by product, customer, vendor, buyer, and salesperson — both detail and summary reporting. Control serves the food, paper, and tobacco/candy distributors. Special features provide for remote order entry through MSI portable terminals, catch weight control, full- and split-case control, slot control, picking labels or lists, multiple street prices, promos, deals, SPIFFS, cost per serving analysis, price books, product catalogs, customer reorder forms, commissions tied to collections, and dunning letters. Other special features include alpha search, product numbers cross tied to

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UPC numbers, automatic product substitution where allowed, credit and stock availability check at order entry, future price changes, and bid control.

Daily exception reports highlight stock outs; customers over credit; orders below desired minimum; line items billed below cost, or desired GP, or having a manual override; stock below minimum; and POs overdue. Demand reports track daily, weekly, M-T-D, Y-T-D, and 12 individual past month's activity/profit analyses on customers and products. Most reports also have CRT displays.

All operations are menu controlled, multi-CRT, and multiple-printer sensitive. Passwords control access. The system is multiple-company and multiwarehouse sensitive. It has been installed in more than 90 sites in 40 states and Canada.

Ongoing support is provided through on-line remote diagnostics.

Companion systems are available for AP, PR, GL, VM, and asset accounting.

Price: \$15,000 - \$25,000

Contact: Robert J. Steinis
(203) 378-6010

FOOD DISTRIBUTOR SYSTEMS, INC.
959 Main Street
Stratford, CT 06497

DACMS (Distribution and Cash Management System)

Operating System: RSTS, RSX

Keywords: • Inventory • Order entry • Purchasing

Distribution medium: 9-track 800/1600 bpi magnetic tape.

DACMS provides a fully integrated series of program modules: Purchasing, Material Management, Order Processing, and Cash Management. Designed through years of user interaction, the system includes more than 50 application programs for any business that needs clear, informative inventory and cash management reports.

Available for fast, efficient, trouble-free installation, DACMS is a turnkey system, providing efficient transfer from your current system to DACMS.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: George B. Weaver
(612) 571-1249

CUSTOM DIGITAL SERVICES
999 50th Avenue Northeast
Minneapolis, MN 55421

Daymark Wholesale Distribution System

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Accounting • Inventory • Purchasing
• Transportation

This comprehensive interactive series of programs for food, poultry, and fish distribution gives management control of the distribution environment. Menu orientation makes this system easy to learn and simple to use, and it operates on a single- or a multicompany basis.

Daymark provides for order entry, picking, truck routing, invoicing, sales analysis, inventory control (by catch weight), purchasing, accounts payable, accounts receivable, general ledger, and analysis reports that track sales, profit, and movement of product by vendor, by customer, by chain, by territory, and by salesperson.

Daymark features:

- Product sales, on order, returns, counts, receipt, restocking, price book, and out of stock by customer management.
- Truck load control by case/pack and weight/size/average
- Production of picking slips by bin location, by customer, by truck, or by route
- Invoicing for random weight items and automatic and special pricing
- Twenty-six selling prices for each item
- Optional dunning and/or promotional messages
- Daily gross profit report by customer and products

A version of this product is available for the VAX computer.

Price: \$3995 - \$15,995

Contact: Gary L. Grierson
(513) 236-7072

DAYTON DATA PROCESSING, INC.
60 Heid Avenue
Dayton, OH 45404

DECTap (Tailored Application Programs), Version 1.3

Operating System: None required

Keywords: • Accounting • Inventory • Purchasing
• Sales analysis

Distribution medium: RL02.

This group of multiuser business data processing software systems serves hard-goods wholesale distributors. The DECTap Base System supports order processing, inventory control, sales analysis, accounts receivable, accounts payable, general ledger, fixed assets, payroll, and purchasing. The Base System, which is a prerequisite for the

application systems, provides a menu control facility; an access security facility; a report writer for defining simple, custom reports; a disk backup utility; a tailoring facility; and system control software.

The easy-to-use interactive tailoring facility involves answering questions about the user's business operations. Computer-based instruction for application system operation is provided. Users progress at their own rate and can control their learning material.

Each of the DECTap systems can be used stand alone except for order processing, which requires the accounts receivable and inventory control systems, and sales analysis, which requires the order processing system. Each system can be integrated with other installed systems of the package for both data flow and data input verification.

DECTap customer documentation consists of a system operations manual, a system manager's guide, and a user's reference manual for each application system.

Refer to SPD #14.32.05 when requesting further information on this product from your local DIGITAL sales office.

Price: \$1200 - \$2000

Contact: Consult your local DIGITAL sales office
(see Introduction).

DIBS-11/CTS-500, Version 1.0

Operating System: RSTS

Keywords: • Accounting • Wholesale

Memory required: 256KB. Distribution media: 9-track 800/1600 bpi magnetic tape, RK07, RL02.

This multiuser wholesale distributor's accounting software package is written in DIBOL to run under the CTS-500 operating system. DIBS-11/CTS-500 comprises five accounting modules: Order Entry/Invoicing/Inventory, General Ledger, Accounts Receivable, Accounts Payable, and Payroll.

Each module can be used as a stand alone except Order Entry, which needs Accounts Receivable. DIBS-11/CTS-500 is designed to run with the other accounting modules/systems when used with the DIBS-11 Account Group integrator. Each module can be integrated with the rest of the system for both data flow and/or data input verification.

The package is a base on which to build vertically marketed application packages. DIBS-11 is divided into routines by function for ease of maintenance and modification.

Documentation is provided on both word processing diskettes and in printed form. The documentation consists of a user's guide, program explanations, and detailed, step-by-step operating instructions. A manager's guide covers system-level aspects of the software, including report, screen, file layouts, and data entry specifications. A site manager's guide covers day-to-day housekeeping functions. CTS-500 specifies documentation that covers material unique to DIBS-11 on CTS-500. That documentation is provided as an update to the system guide. A programmer's guide helps a programmer work within the environment of the system. The guide also contains subroutine descriptions and an index.

The DIBS-11/CTS-500 system uses the DIBS-11/CTS-500 standard menu driver subsystem; the account group subsystem, which is the path for data to get to the General Ledger; and DIBS-11/CTS-500 standard routines. The system uses the standard maintenance programs and tables (parameters, defaults, and verification for nonintegrated systems).

Refer to SPD #13.31.01 when requesting further information on this product from your local DIGITAL sales office.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

DIBS-11/UK, Version 1.0

Operating System: CTS-300

Keywords: • Accounting • Wholesale

Distribution media: RK07, RL01, RL02.

This multiuser wholesale distributor's accounting software package is written in DIBOL to run under the CTS-300 operating system. DIBS-11/UK comprises four accounting modules: Order Entry/Invoicing/Inventory, General Ledger, Accounts Receivable, and Accounts Payable.

Each module can be used as a stand alone except Order Entry, which needs Accounts Receivable. DIBS-11/UK is designed to run with the other accounting modules/systems when used with the DIBS-11/UK Account Group integrator. Each module can be integrated with the rest of the system for data input and/or data verification.

The package is a base on which to build vertically marketed application packages. DIBS-11/UK is divided into routines by function for ease of maintenance and modification.

Documentation consists of a user's guide, complete with conversion forms to DIBS-11/UK; program explanations; and detailed step-by-step operating instructions. The applications summary covers system-level aspects of the software, inclusive of report, screen, file layouts, and data entry specifications. The site manager's guide covers day-to-day housekeeping functions. The programmer's handbook helps a programmer live within the environment of the system. The handbook also contains subroutine descriptions and an index.

The DIBS-11/UK system uses the DIBS-11/UK standard menu driver subsystem; the account group subsystem, which is the path for data to get to the General Ledger; and DIBS-11/UK standard routines. The system uses the standard maintenance programs and tables (parameters, defaults, and verification for the nonintegrated systems).

Refer to SPD #12.54.00 when requesting further information on this product from your local DIGITAL sales office.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

Distribusyst (Distribution Management System)

Operating System: RSX, RT-11

Keywords: • Accounting • Financial analysis • Inventory
• Order entry

Distribusyst is an interactive system that controls distribution activity, including order entry, inventory control, pick lists, checking, packing lists, inventory control, purchasing, and gross profit analysis. Distribusyst also manages accounting functions, including billing, sales analysis, accounts receivable, purchasing, accounts payable, payroll, general ledger, and financial reporting.

Price: \$6000 - \$12,000

Contact: Andy Cherry, Marketing
(201) 348-6688

EXTENDED TECHNOLOGIES CORP.
1023 Boulevard East
Weehawken, NJ 07087

Distribution — Wholesale and Retail

Operating System: RSTS

Keywords: • Purchasing • Retail • Warehousing
• Wholesale

This comprehensive set of modules is installed in a wide variety of major distributors. The PDP-11 version will run on MICRO-11 upwards; the VAX version is specially designed and written to exploit VAX to the maximum. More than 12 years experience in on-line commercial distribution is built into the packages.

Multiwarehouse, sophisticated inventory control, and sales management are integrated into financial accounting.

A version of this product is available for the VAX computer.

Price: \$30,000 – \$100,000

Contact: Dr. E. A. Haworth

061 248 7100

MANCOS COMPUTERS

3 Wynnstay Grove, Fallowfield

Manchester M14 6XG

United Kingdom

Distribution Management System

Operating System: CTS-300, RSTS, RT-11

Keywords: • Inventory • Order entry • Retail
• Sales analysis

This interactive system allows one to process customer orders, keep inventory, create invoices, and store sales information. The system provides for price changes, cost calculations, inventory status, and sales data and supports sales history, gross profit, and inventory control. In addition, the system can integrate fully with the Accounts Receivable and General Ledger systems. The system greatly reduces time and effort in creating, shipping, and billing orders. Features of the system include:

- **Validation:** Data is validated when entered, thus increasing productivity and reducing the likelihood of shipping the wrong product.
- **Control:** System accuracy is ensured through batch totals and data entry journals.
- **Management reports:** Order processing provides management and summary reports showing customer and inventory activity, helping the user plan and manage.
- **Integration:** Complete integration is provided with the general ledger through the Accounts Receivable System. Journal and general ledger account numbers are controlled by the user.
- **Manual override:** Automatic features may be changed by data entry operations, meeting unique requirements easily.
- **Immediate updating:** The system identifies items on order, back ordered, reserve amounts ready for shipment, and items on hand.
- **Credit control:** Customer preset credit limit is used to control order entry.

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A version of this product is available for the VAX computer.

Price: \$3000/module – \$5000/module

Contact: E. Jackson Smith
(301) 296-9032

SMITH, ABBOTT, AND COMPANY, INC.
300 E. Joppa Road
Baltimore, MD 21204

Dovetail

Operating System: RSTS

Keywords: • Accounting • Inventory • Sales analysis
• Wholesale

Distribution media: data communications, disk pack, magnetic tape.

This comprehensive accounting and management system for wholesale distributors supports simultaneous users at VT100 or VT200-series (or equivalent) interactive display terminals. Applications in the system include order entry and order processing, shipping, invoicing, accounts receivable, purchasing and receiving, accounts payable, payroll and commissions, and budgeting and sales analysis. Transactions are automatically posted to the integrated general accounting system.

Dovetail's QUERY function permits any user to look up customer records, order status, inventory, and other information without having to know account numbers or other codes. The system's flexible, modular design enables each user to customize the system without costly reprogramming.

Dovetail's report generator features simple menu prompts for on-demand creation of either standard or special reports. All financial reports can be produced at nine levels of detail.

A version of this product is available for the VAX computer.

Price: \$18,000 – \$34,000

Contact: Thomas Considine
(617) 484-6814

CONSIDINE COMPUTING SERVICES
490 Trapello Road
Belmont, MA 02178

DSS (Distribution Strategy Simulator)

Operating System: RSTS, RSX

Keywords: • Decision support • Financial analysis
• Simulation

The growing complexity of distribution networks and the length of time it takes to cost out alternatives can force management to address distribution issues in isolation. DSS provides the capability of addressing the entire distribution strategy whenever any variable such as transportation costs, new products, product costs, and so on, change. DSS can handle any form of distribution network and any form of cost information. The program can establish the best use of a network, can accept user modifications, and provides a wide variety of analytical reports.

Price: Available upon request

Contact: Hank Johansson

(212) 536-2994

COOPERS & LYBRAND

1251 Avenue of the Americas

New York, NY 10020

DTRO BOMP (Bill of Materials Processor) System

Operating System: RSTS, RSX

Keywords: • Bill of materials • Manufacturing

This integrated system operates in a manufacturing or assembly environment and provides bill of materials file building, file maintenance, and file inquiry through interactive user dialog, as well as an interactive where-used inquiry to show all products or assemblies that any given part or subassembly is used to make. The quantity needed is shown and, optionally, labor and machinery requirements. The system also features product explosion showing, for any product entered, all levels of subassembly and part or raw-material requirements. The availability of each assembly or part in inventory is checked. The materials cost for manufacturing one unit of the product and for the total order is computed; optionally, personnel and machinery requirements are totaled.

This system interfaces with the DTRO item file and others and is associated with a Materials Requirements Planning system, which uses the same files.

A version of this product is available for the VAX computer.

Price: \$1500

Contact: Bill Benton

(415) 861-5454

DTRO SOFTWARE

1229 7th Avenue

San Francisco, CA 94122

DTRO Inventory Management System

Operating System: RSTS, RSX

Keywords: • Inventory • Purchasing • Report writer

The Inventory Management System, written in COBOL, calculates the requirement for reordering every item in inventory, using the "service point" analysis approach. A recommended purchase report results, showing the minimum purchase needed to maintain management's service target. Additional purchases before announced cost increases are analyzed to show the most profitable extra purchase. The system accepts forecast updates from the Forecasting System and status information from the Order Entry System. Fully discounted purchase orders are printed, including many user options for printing and commenting.

A flexible report generator, with 12 preprogrammed reports, is included. File extracts are simple to add. The approach has been tested on more than 200,000 items in major firms. The system is fully documented, with full support available for installation, training, consulting, and customizing.

A version of this product is available for the VAX computer.

Price: \$5000 - \$10,000

Contact: Bill Benton

(415) 861-5454

DTRO SOFTWARE

1229 7th Avenue

San Francisco, CA 94122

DTRO Multilocation Distribution System

Operating System: RSTS, RSX

Keywords: • Inventory • Purchasing • Sales analysis
• Wholesale

This system includes the following applications programs:

- Order Processing is an interactive, user-oriented, on-line system for entering sales orders into the computer and controlling the steps involved in picking and shipping the products and billing the customer. Some features are interactive access to all data on products, customers, suppliers, and open orders; sequenced pick lists showing ship quantity, back-order quantity, and so on; and extensive discounting and text-printing options in invoice printing.
- Forecasting makes forecasts based on the "exponential smoothing" method, a type of weighted averaging. Initial forecasts and associated factors are created by a program that places them directly on file. Special computation for slow-moving items is included, as are demand filters and tracking signals. Full or exception output may be specified.

- Inventory Management calculates the reordering requirement for every item in inventory, using the "service point" analysis approach. The result is a recommended purchase report showing the target purchase needed to maintain service. Additional purchases before cost increases are analyzed to show the most profitable extra purchase. Fully discounted purchase orders are printed. The goods-receipt program is interactive.
- Accounts Receivable gives fully detailed open-item aged account statements. Cash application is by means of interactive dialog, and supporting sales and payment transactions are available on line for problem solving.
- Bill of Materials Processor explodes products into component parts, checks availability of each assembly or part, and gives total product cost.

DTRO data base programs provide interactive access to customer, item, vendor, and bill of materials files. Dialogs for adding, deleting, changing, listing, and inquiring provide convenient, powerful file-management methods. A report generator is included.

A version of this product is available for the VAX computer.

Price: \$12,000 – \$25,000

Contact: Bill Benton

(415) 861-5454

DTRO SOFTWARE

1229 7th Avenue

San Francisco, CA 94122

DTRO Order Processing System

Operating System: RSTS, RSX

Keywords: • Manufacturing • Order entry • Wholesale

This interactive, user-oriented, on-line system, written in COBOL, enters sales orders into the computer and then controls the steps involved in picking, shipping, and billing the products. Some major features are:

- Total interactive, multilocation access to all data on products, customers, suppliers, and open orders
- Ability to review, change, cancel, or add to any order at any point in the entry process
- Sequenced pick lists showing ship quantity, back-order quantity, and so on
- Easy adjustment of orders as entered to reflect shorts, substitutions, and so on
- Extensive discounting and text-printing options in invoice printing
- Open-order file with details of each purchase order, for ease of verifying invoices
- Output file in the proper format for DTRO accounts receivable
- Input files easily created by DTRO File Management

This system is fully documented, with full support available for installation, training, consulting, and customizing.

A version of this product is available for the VAX computer.

Price: \$5000 - \$10,000

Contact: Bill Benton

(415) 861-5454

DTRO SOFTWARE

1229 7th Avenue

San Francisco, CA 94122

DTRO Purchasing System

Operating System: RSTS, RSX

Keywords: • Purchasing

The DTRO purchasing system includes a purchase order module and a goods-receipt program. In the comprehensive Purchase Order module, written in COBOL, quantities are determined by demand forecasting and inventory review programs and by management input. The program takes advantage of all available discounts, which may be standard or special, and computes the most profitable buy. Discounts may be permanent or temporary and may be applied to individual or all items from a particular vendor. The program recognizes special discounts, as the user desires. The program maintains an audit trail accounting for all amounts entering the program.

The GOODSIN module allows the user to enter receipt of goods into the system. The interactive dialog makes entry easy, and the user is prompted for all key information items. The user can query the module for information on all purchase orders. GOODSIN immediately updates both the purchase order and item file records, maintaining accurate control of key information. Inquiry is available by vendor name or date range, if the purchase order number is unknown. The system can record up to five partial goods receipts against each detailed purchase order line and coordinates with the overdue-orders listing. The system provides dynamic lead-time updating; when goods receipt occurs, lead time for that item is revised to reflect current time.

Both modules are documented, with full support available for installation, training, consulting, and customizing.

A version of this product is available for the VAX computer.

Price: \$5000 - \$10,000

Contact: Bill Benton

(415) 861-5454

DTRO SOFTWARE

1229 7th Avenue

San Francisco, CA 94122

Electronic Component Distribution System

Operating System: RSTS

Keywords: • Electronic • Inventory • Order entry
• Wholesale

The electronic component distribution system is specially designed to improve and maximize profitability of distributors of components, boards, and modules. This well-proven, robust system can be supported worldwide and is installed in the United States, United Kingdom, France, and Germany.

The system is very economical to run and easy to install and has many features specific to electronic component distribution.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$60,000

Contact: Dr. E. A. Haworth
061 248 7100

MANCOS COMPUTERS
3 Wynnstay Grove, Fallowfield
Manchester M14 6XG
United Kingdom

Escort Routing Controller

Operating System: None required

Keywords: • Data collection • Materials handling
• Warehousing

This system directs the movement of material in automated manufacturing systems. Material on carriers, pallets, skids, totes, and so forth is routed to the correct destination while data base computers are automatically updated. Custom installations are created through fill-in-the-blanks dialogs.

Support for industry-standard programmable controllers, SMARTEYE label readers, redundant ERC operation, and recovery from power failure are among the many supported options.

Price: \$10,000 – \$30,000

Contact: Marty Peters
(313) 589-3382

SYSTEM ASSOCIATES, INC.
1183 Chicago Road
Troy, MI 48083

EXDOC (Export Documentation System)

Operating System: RT-11

Keywords: • Documentation • Order entry

This powerful and flexible export order-processing system features simple and flexible forms filling; storage, recall, and printing of completed documents; automatic currency conversions and invoice extensions; automatic insertion of standard clauses and certifications in the appropriate language; management summary reports; automatic interface with inventory and accounting systems; and communications with other computers. You have to fill in every item only once. The system will transfer the data to the other forms.

Benefits of the system include an 80% reduction in the volume of data to be entered, a reduction in the time and labor needed to document export shipments, the virtual elimination of transcription and calculation errors, high-quality documents, and better management control based on the summary reports.

Shared Systems Support Limited provides installation, training, and ongoing hardware and software maintenance, as well as customization of forms and reports.

Price: \$3000

Contact: Les Palenik
(416) 298-9161

SHARED SYSTEMS SUPPORT LTD.

3251 Kennedy Road, Unit 5A
Scarborough, Ontario M1V 2J9
Canada

Export Package

Operating System: CTS-300, RSTS, RT-11

Keywords: • Management • Manufacturing • Transportation

This software for export manufacturers, suppliers, and export management companies produces documents, provides tracking, and performs all accounting functions.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Richard Bowe
(603) 898-7000

ASA INTERNATIONAL TRADE SERVICES
10 Manor Parkway
Salem, NH 03079

FACS — Inventory and Order Entry

Operating System: RSTS

Keywords: • Inventory • Order entry • Report writer

This package contains four subsystems: parts master processing and reporting, purchase order processing and reporting, sales order processing and reporting, and kit processing. The system features direct interface to the FACS A/R and concurrent operation with the FACS G/L; full branch location capabilities; inventory valuation using LIFO, FIFO, or average costing; alphanumeric part numbers; user-definable fields in parts master; G/L cost and sell cost for each part; five selling prices for each part; screen inquiry for stock status; intercompany transfers; and selective cost and/or price adjustments.

Reporting features include inventory valuation and sales order status reports; inventory transactions listing; purchase order status and cash forecasting reports; sales history report by customer; customized invoices, purchase orders, and picking/packing lists; committed inventory report; user-defined parts master listing; and user-defined on-hands inventory report. All reports can be printed to the screen or to a hard-copy device.

A version of this product is available for the VAX computer.

Price: \$2500

Contact: Steven L. Buth
(509) 624-4248

SPOKANE COMPUTER SERVICES, INC.
West 915 Second Avenue
Spokane, WA 99204

Freight Forwarder System

Operating System: RSTS

Keywords: • Accounting • Materials handling
• Transportation • Warehousing

This system is used by the major United Kingdom surface and air forwarders. More than 40 locations use the system, which has modules covering all aspects of international freight movement. Financial control, multicurrency ledgers, and job costing ensure maximum profit. Traffic analysis permits market viability to be analyzed.

A version of this product is available for the VAX computer.

Price: \$5000 - \$60,000

Contact: Dr. E. A. Haworth
(061) 248-7100

MANCOS COMPUTERS
3 Wynnstay Grove, Fallowfield
Manchester M14 6XG
United Kingdom

Fuel Oil Accounting/Delivery Scheduling

Operating System: RSTS

Keywords: • Accounts receivable • Billing • Petroleum
• Scheduling

The ADD Fuel system helps the petroleum marketer to forecast deliveries on either a degree day or a dated basis, automatically adjust for hot-water consumption in all seasons, control credit and collections, and generate dunning notices as required. The system can also produce "instant invoices" and "instant statements," maintain balance-forward and open-item accounts, and process budget and nonbudget accounts. The system accommodates accounts that purchase multiple products or that have many delivery locations. Accounts may be located and all account information displayed on a terminal through the account's name, address, number, telephone number, or practically any other key.

A report generator is an integral part of this system, thus allowing the user to produce ad hoc reports. The system also provides a total accounts receivable system, including sales and cash journals for any period desired by the user as well as detailed tax reports and summaries.

The ADD Fuel system interfaces with the ADD General Ledger system to provide easy and accurate transfer of sales and other GL data at month's end.

A version of this product is available for the VAX computer.

Price: \$15,000 - \$30,000

Contact: Bruce A. Bott, President
(201) 584-4026

ADVANCED DIGITAL DATA, INC.
354 Route 206
Flanders, NJ 07836

IC-11 (Inventory Control)

Operating System: Micro/RSTS, Micro/RXS, RSTS

Keywords: • Inventory • Retail • Warehousing

Distribution media: 800/1600/6250 bpi magnetic tape, RK07, RL02, RM03, RX50.

This system is a layered product, requiring OE-11 and AR-11 as a base. The combination of these three packages provides the user with complete information for maintaining inventory records, placing orders, invoicing, and updating accounts receivable information. Other user-oriented features include:

- Unlimited units of measure for each product for different packaging, lengths, types, and colors

- User-defined decimal-point positioning for inventory quantities in an 18-character field
- Multiple warehouses and transfers between warehouses (for both independent and branch) allowed
- Four costing methods (LIFO, FIFO, average cost, and specific cost)
- Automatic cost adjustments reflected in both invoiced and stock merchandise and automatic costing of orders as they are invoiced
- Reports for an unlimited date range by warehouse, unit of measure, and product
- A purchase analysis that calculates inventory movement and last month's sales and compares reorder quantities
- Calculation of inventory turnover
- A selection to freeze inventory quantities for a portion of inventory to allow an accurate physical count
- A password security system
- Interfaces to OE-11 Order Entry and AR-11 Accounts Receivable; other complementary products include the GL-11 General Ledger, AP-11 Accounts Payable, PY-11 Payroll, FA-11 Fixed Assets, and CN-11 Job Cost systems

IC-11's reports include inventory stock reports, purchase analysis, inventory movement, inventory turns, a user-designed inventory count sheet, freeze quantities, and a units-of-measure listing.

The IC-11 user's guide includes information for the office manager, the terminal operator, and the application supervisor. The reference manual provides information on installation procedures, program flows, and data formats for the system manager and programmers.

A version of this product is available for the A-to-Z system.

A version of this product is available for the VAX computer.

Price: \$5600 - \$17,500

Contact: Sales Department
(806) 792-3785

COMPU-SHARE, INC.

3824 50th Street

Lubbock, TX 79413

ICAMS (Inventory Control and Management System)

Operating System: RSTS

Keywords: • General ledger • Inventory • Order entry
• Wholesale

Distribution media: 9-track 1600 bpi magnetic tape, RL02.

This complete order entry and inventory control system applies discounts and quantity breaks by vendor line and customer. ICAMS identifies substitution and alternate inventory items, offers bill-to and multiple ship-to capabilities, and contains 99 price levels based

on customer type. In addition, this system interfaces completely with inventory and sales analysis systems and with accounts payable, purchase order, accounts receivable, and general ledger systems.

A version of this product is available for the VAX computer.

Price: \$5000 - \$15,000

Contact: Anthony J. Ruggeri
(314) 644-4050

AUTOMATED INFORMATION INC.
6710 Clayton Road
St. Louis, MO 63105

Identocheck

Operating System: RSX

Keywords: • Inventory • Security • Signal processing
• Warehousing

Identocheck uses voice recognition input to count and verify the order item and quantity. The batch or lot number may be verified or input to a permanent order record. Identocheck verifies pick accuracy to 100%, increases checker accuracy to 100%, and prompts checker counts and batch/lot inputs.

Checker productivity is increased by 50%. The checker checks only until the discrepancy is located. Checker security risk is reduced. The system records all adds, deletes, inserts, removes, and checker overrides. The checker can call in and record lot and batch numbers for the item picked. The system generates order checking adjustment reports and accurate packing slips and maintains orders not checked. Identocheck can use voice input, bar scan input, or keypad input. The system also has voice output, print output, or visual display.

Price: \$12,000 - \$18,000

Contact: Andy Cherry, Marketing
(201) 348-6688

EXTENDED TECHNOLOGIES CORP.
1023 Boulevard East
Weehawken, NJ 07087

Identopick

Operating System: RSX

Keywords: • Inventory • Warehousing

This paperless order picking system manages order picking and selection by displaying order numbers and item quantity to pick at individual bins through the use of LED displays. Logical pick zones may be selected to balance picker productivity. Identopick maintains a product master and location map and tracks the progress of order selection throughout the warehouse. Items are automatically identified through a pick display (LEDs). The system increases picking

Price: \$14,490 – \$56,752

Contact: Richard R. Brink
(214) 422-1022

ANTRIM CORP.

101 E. Park Boulevard, Suite 855
Plano, TX 75074

Laboratory System

Operating System: DSM

Keywords: • Biology • Data collection • Medical
• Report writer

Distribution medium: magnetic tape.

This system provides hospital laboratories with control of daily lab test processing as well as internal and external reporting. The on-line system records all ordered tests, results, and comments; produces worksheets and labels; and can assign specimen numbers. The system includes numerous report capabilities and automatic client and/or physician billing. The quality control and preventive maintenance features monitor and regulate the quality control tests and preventive maintenance tasks in a hospital laboratory. Automated laboratory equipment can be interfaced to the system. Numerous hospital-defined parameters can tailor the package to an individual hospital.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Dr. Richard C. Howe, Director of Marketing
(804) 857-4551

HOSPITAL DATA CENTER OF VIRGINIA
962 Norfolk Square
Norfolk, VA 23502

LABPlus (Laboratory Information System)

Operating System: RSX

Keywords: • Billing • Medical • Query facilities
• Statistics

LABPlus is a third-generation on-line computerized laboratory information system. The system's flexibility allows constant exchange of information with other departments in the hospital: nursing units, outpatient areas, emergency department, admitting, business office, and so on.

A state-of-the-art system, LABPlus significantly impacts and benefits all hospital departments, the medical staff, and the clinical and anatomical laboratory sections through elimination of unnecessary paperwork; fast response time; user-formatted chart layouts and

Price: Available upon request

Contact: Ford R. Phillips
(314) 232-9861

MCDONNELL DOUGLAS HEALTH SYSTEMS
Health Services Division
5775 Campus Parkway
Hazelwood, MO 63042

Labels System

Operating System: DSM

Keywords: • Data base management • Data collection
• Medical • Printing

Distribution medium: magnetic tape.

The HDCV Labels System provides a hospital with an on-line method of organizing both external and internal mailings. The system creates a data base of persons, hospital departments, or businesses, each of which belongs to one or more mailing lists. Address labels for each list of recipients, specially formatted labels for internal mail, special messages or greetings, and complete directory listings may be produced. Labels and directories may be printed alphabetically, by zip code sequence, or by member number. Labels may also be printed for individual members, and the hospital may also build a table of cities and states to facilitate the data entry of addresses. Each hospital may produce labels and directories according to its own schedule.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Dr. Richard C. Howe, Director of Marketing
(804) 857-4551

HOSPITAL DATA CENTER OF VIRGINIA
962 Norfolk Square
Norfolk, VA 23502

Laboratory Data Management System

Operating System: DSM

Keywords: • Information management • Medical
• Order entry

This product is written in ANSI standard MUMPS and runs on DIGITAL micros, minis, and VAXs. This table-driven product aids the user in performing all laboratory functions from order entry to reporting and includes quality control, results entry and calculation, statistical plotting, management reporting, worklist production, and autodial reporting.

A version of this product is available for the VAX computer.

JSI/MIS, developed jointly with CDD and written in C, is a comprehensive modular medical software package that includes billing, insurance claim preparation, practice analysis, appointment scheduling, and medical records functions. This easy-to-use clinical data-processing system provides cost-effective medical business management and convenient storage of patient information. JSI/MIS software combines the latest information-processing technology with JSI's experience in the requirements of community health centers, group practices, family planning organizations, and health maintenance organizations to offer an advanced and complete medical system.

The system features a module to meet the reporting requirements of federally funded clinics and health centers. That module maintains encounter and user data for BCRR reports and census tract data for patient origin studies (MUA). The module also automatically posts sliding-fee-scale adjustments based on patient income and family size. Transaction information can be accessed by program and department, thus simplifying reporting and analysis. JSI/MIS with the federal reporting module is ideal for community health centers, Title X family planning centers, certified rural health clinics, and other health centers that require expanded reporting functions.

A version of this product is available for the VAX computer.

Price: \$12,000 - \$40,000

Contact: Daniel D. Moriarty
(617) 482-9485

JSI

210 Lincoln Street
Boston, MA 02111

LabCom +[®]

Operating System: Independent

Keywords: • Data base management • Instrumentation

LabCom+, a stand-alone clinical-laboratory management system, can interface to various hospital information systems. LabCom+ allows the user to interface to personal computers as well as to instruments. LabCom+ is a complete turnkey single-vendor product consisting of hardware/hardware maintenance and software/software support. Installation and postinstallation support are offered, as well as varied consulting, training, and client support services.

Price: \$7500 - \$12,500

Contact: Edward Muller, Director of Marketing — Pharmacy
(201) 256-7633

INTERACTIVE SYSTEMS AND MANAGEMENT CORP.
1500 Cardinal Drive
Little Falls, NJ 07424

intRlab

Operating System: DSM

Keywords: • Asynchronous communication • Data collection
• Medical • Order entry

This system, written in DSM and designed for the emerging post-DRG clinical laboratory, provides the flexibility and control mechanisms necessary to adapt to changing business conditions. This fully configured data processing solution provides all hospital/commercial laboratory-system requirements, including billing and accounts receivable and marketing/management reporting.

For the joint-venture laboratory, which must support hospital inpatient requirements as well as compete in the commercial marketplace, the system supports the high-volume batch processing techniques and the "STAT" lab(s).

The intRlab system supports the hospital-based laboratory and provides cumulative reporting, quality control, delta checking, pathology indexing, automated instrument results capture, and extensive hospital information system interfacing.

The intRlab system is able to automate the independent or commercial laboratory. Tools are provided to improve customer service and reporting, manage lab workflow, and increase markets. Additionally, a flexible and open-ended local and remote networking capability allows remote laboratories or locations to be connected.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Bryan LeBlanc
(214) 231-6591

RUBICON CORP.
1200 E. Campbell Road
Richardson, TX 75081

JSI/MIS (John Snow, Inc./Medical Information System)

Operating System: ULTRIX-11

Keywords: • Billing • Information management • Insurance
• Medical

Memory required: 128KB.

InteRx™**Operating System:** DSM**Keywords:** • Accounts receivable • Inventory
• Pharmaceutical • Retail

This retail pharmacy system consists of optional inventory, accounts receivable, and institutional modules. The InteRx system is for use in community pharmacies, nursing homes, and hospitals.

Work is performed in an interactive environment at a CRT, using a full-screen format; that is, the user specifies the function — for example, "entry of an Rx" — and the CRT screen is filled with prompts at half intensity and entries for each prompt at full intensity. Patient-profile information appears in the same fashion, enabling the user to distinguish between header and patient information.

InteRx is extremely flexible in order to meet each customer's needs. Since many parts of the system are parameter driven, InteRx can be tailored to each user. InteRx eliminates the need to fill out third-party claim forms, makes rejected claims easy to correct, eliminates patient-profile ledger cards, accurately prices prescriptions, and provides useful management reports.

The features of InteRx provide:

- On-line patient profiles, including allergy and diagnosis; patient lookup by name or number; and simple procedures for changing and adding profile information
- Automatic refills by entering prescription number, automatic production of prescription labels and receipts, directions entered from the doctor's prescription in Latin and printed in English or Spanish, and precautionary warnings as part of the prescription label
- Automatic third-party billing and resubmission of rejected claims, drug price updates and inquiry, special pricing, and provision for compounded prescriptions
- Automatic checks for allowable number of refills, refill too soon, nonrefillable drugs, less than effective medications, drugs not covered (by plan), and interaction warnings
- Dispensing and receipts reports, operating statistics, and patient lists and profiles

The Institutional InteRx module includes on-line patient admission functions, bed census reports, on-line creation and modification of physician orders, production of physician orders and medication sheets, and full and modified unit dose, drug utilization, and history reports.

A version of this product is available for the VAX computer.

This collection of programs, written by the Anesthesia Section of the Clinical Center at the National Institute of Health, aids in the study of certain cardiorespiratory parameters. The components of the Hemodynamic Tracking Profile are:

- HEMO, a storage program to send up to 240 sets of data to external storage
- CALLBK, a retrieval program to list all data sets stored by HEMO
- CRASH, a recovery program to be used should HEMO crash
- CALC1, a modified version of HEMO that calculates derived variables but does not store them externally, as HEMO does

DECUS number 11-455.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Independent Laboratory System

Operating System: DSM

Keywords: • Asynchronous communication • Data collection
• Medical • Order entry

This product, written in DSM, offers on-line entry of order requisition data to include client-specific test requesting and patient demographic information. The orders are converted from a client structure to the individual components so that the order can be exploded and work distributed to the performing medical departments. Worklists are produced, containing the appropriate quality control and standard specimens, as well as the patient specimens in a format specific to the bench technician. The system accepts test results manually and automatically and subjects each result to a real-time review based on patient demographic characteristics that include species, age, and sex versus a set of master file tables.

An extensive comment and message capability allows the appropriate medical technologist or pathologist interpretation to be recorded. The patient results are then reassembled on an order basis for reporting to the ordering physician. The reporting system offers client-specific tailoring and a number of transmission options. An autodial feature allows the laboratory system to connect to terminals at client locations or remote laboratory sites for automated report production.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Bryan LeBlanc
(214) 231-6591

RUBICON CORP.
1200 E. Campbell Road
Richardson, TX 75081

Price: Available upon request

Contact: Meditech

(617) 329-5300

MEDITECH

MEDITECH Circle

Westwood, MA 02090

Hospital Laboratory System

Operating System: DSM

Keywords: • Asynchronous communication • Medical
• Order entry • Quality control

This system, written in DSM, provides an on-line, 2-way interface to an institution's hospital order communications system in order to facilitate ordering, status and result inquiries, and STAT reporting to the nursing stations. Orders for laboratory testing are processed by the specimen collection subsystem, which consolidates test requests and performs container selection and minimum volume calculations. The specimen container-label production and draw scheduling can optimize service levels and reduce work for the phlebotomy team. The system offers positive receipt verification of specimens, a worksheet, and a results entry subsystem.

A key service feature is the ability to delta check a new result against past results for inpatients. The result reporting function produces cumulative length-of-stay patient reports, interim results reports, STAT/call reports, discharge reports, and microfiche. The microfiche records results and a date/time/responsible individual indicator for significant steps in the testing process. This archival storage of information can be critical in a fact-determining process involved with any claim versus a physician or a hospital.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Bryan LeBlanc

(214) 231-6591

RUBICON CORP.

1200 E. Campbell Road

Richardson, TX 75081

HTP (Hemodynamic Tracking Profile)

Operating System: RT-11

Keywords: • Biology • Calculation aids • Data collection
• Medical

Memory required: 60K.

HDS/II (Healthcare Data Systems)

Operating System: RSTS

Keywords: • Billing • Financial analysis • Payroll
• Pharmaceutical

This comprehensive interactive system for long-term health care facilities is divided into several modular subsystems that may be implemented separately or in combination. The various components are Patient Accounting and Information System (PAIS), Medical Records System (MRS), Patient Funds System (PFS), Payroll and Staffing System (PASS), Personnel Information System (PINS), Accounts Payable System (APS), and General Ledger System (GLS). Some outstanding features are third-party billing, automatic Medicare/Medicaid reconsideration, automatic crossover of coverage, all parameter-driven systems, remote processing capabilities, and multiple terminal support.

Installation includes on-site training and conversion and user manuals with continuous update service.

Price: Available upon request

Contact: David M. Pollack, President
(914) 423-3623

ADL DATA SYSTEMS, INC.
50 Stratton Street South
Yonkers, NY 10701

HIS (Hospital Information System)

Operating System: Independent, MIIS/MAGIC

Keywords: • Accounting • Information management
• Medical

This system includes 18 patient care and financial software applications: Admissions, Medical Records, Case Mix Management, Radiology, Pharmacy, Nursing/Workload Management, Laboratory, Microbiology, Surgical Pathology, Blood Bank, Billing/Accounts Receivable, Accounts Payable, Materials Management, General Ledger, Fixed Asset Accounting, Payroll/Personnel, Nurse Station Communications, and Resource/Appointment Scheduling. Each of those can be installed individually or in groups sharing interfaces with our other modules or with other vendors' systems. HIS features time-tested software and planned computer redundancy. Users have a choice of financing options, as well as the ability to install the system in phases and expand it.

The programs are written in MIIS (MEDITECH Interpretive Information System), a MUMPS dialect.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Dr. Richard C. Howe, Director of Marketing
(804) 857-4551

HOSPITAL DATA CENTER OF VIRGINIA
962 Norfolk Square
Norfolk, VA 23502

HBS Nursing Home Management Information System

Operating System: CTS-300, RT-11

Keywords: • Accounting • Medical

This user-friendly system provides patient billing and accounting, payroll, accounts payable, general ledger, patient personal funds accounting, medical records, and fixed-asset accounting.

Price: \$20,000 - \$150,000

Contact: V. R. Tabaac
(215) 364-4136

HBS MEDICAL MANAGEMENT INC.
1300 Industrial Highway
Southampton, PA 18966

HDC+ (Hospital Data Communication)

Operating System: Independent

Keywords: • Electronic mail • Information management
• Scheduling

HDC+ uses visual-display terminals, terminal printers, and special-purpose minicomputers to improve communication among hospital admitting, nursing, and ancillary departments. HDC+ automates many of the manual activities involved in patient admissions, outpatient registrations, order entry, charge collection, and results reporting. A split screen data entry technique enables the operator to visually check each order as it is entered. Menu selection and help procedures simplify order preparation, collection of admitting information, and other data communication tasks.

Price: Available upon request

Contact: Ford R. Phillips
(314) 232-9861

MCDONNELL DOUGLAS HEALTH SYSTEMS
Health Services Division
5775 Campus Parkway
Hazelwood, MO 63042

Note: Sources for program set "RVG" have been deleted by author request; all other programs include complete sources. See DECUS number 11-393 for Part 1 of GAMMA-11 German-Language Clinical Applications Programs.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

GLS (General Ledger System)

Operating System: RSTS

Keywords: • Cost accounting • Financial analysis
• General ledger • Statistics

This program, designed for health care facilities, features automatic extract and post routines from A/R, A/P, and payroll in either detailed or summary form. GLS is based on the Uniform Chart of Accounts with a crosswalk to a facility's own numbering system (if different). GLS includes a budget system based on G/L account numbers with monthly and year-to-date comparison of expenses to budget allocation, an automatic posting of recurring entries, and an automatic reversal of statement entries.

Price: Available upon request

Contact: David M. Pollack
(914) 423-3623

ADL DATA SYSTEMS, INC.
50 Stratton Street South
Yonkers, NY 10701

Group Purchasing System

Operating System: DSM

Keywords: • Accounts receivable • Inventory • Medical
• Purchasing

Distribution medium: magnetic tape.

This on-line purchasing service for ordering supplies consists of purchasing, contract analysis, and billing modules. The purchasing section generates an order with a computer- or hospital-assigned purchase order number. The purchasing module selects the vendor with the best buy for each product ordered. The contract analysis module permits the purchasing service to create files of contracts for related items with prenegotiated prices for a specified time period. Reports from that module enable the purchasing service to determine the amount due from vendors, based on dollar volume of purchasing orders. Product listings provide documents for purchasing agent referral.

A version of this product is available for the VAX computer.

GAMMA-11 German-Language Clinical Applications Programs (Part 1)

Operating System: GAMMA-11, RT-11

Keywords: • Medical • Nuclear

Memory required: Standard GAMMA-11 configuration.

These programs perform analyses on clinical procedures in a nuclear medicine department. The programs in Version 1 are designed for the evaluation of lung perfusion, lung ventilation, liver/gallbladder function, renal tubular function, and parotid gland function. A program to create functional images of organ function and a utility program for the evaluation of camera homogeneity are included. A text file on the distribution media READ.ME explains the directory of programs and procedures for running the programs on the demonstration files. DECUS number 11-393.

Note: Documentation is written in German. The BASIC programs on the media (for example, CURVE.BAS) run successfully only under the GAMMA-11 BASIC VIB interpreter. The FOCAL programs on the media require the interpreter, as supplied.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

GAMMA-11 German-Language Clinical Applications Programs (Part 2)

Operating System: GAMMA-11, RT-11

Keywords: • Medical • Nuclear

Memory required: 48K words.

These programs are additions to the existing GAMMA-11 German-Language Clinical Applications Programs package (DECUS number 11-393). The programs in Version 1A are for use on the evaluation of cardiac nuclear studies. The programs perform evaluations of regional ejection fraction and wall motion (John Idoine et al., Joint Program in Nuclear Medicine, Harvard Medical School), minimal transit times (W. H. Knapp et al., Deutsches Krebsforschung-Zentrum), ejection fraction from first-pass list-mode data (C. M. Kirsch, Peter Bent Brigham Hospital), ejection fraction from gated blood-pool list-mode data (R. Knopp, University of Bonn), count densities along radial segments of myocardial thallium images (W. Mueller-Schauenberg et al., University of Tuebingen), and edge-finding and ejection fraction calculations from gated first-pass data (H. Sochor et al., Krankenhaus D. Stadt Wien). DECUS number 11-439.

Associated documentation: GAMMA-11 documentation set, *FORTRAN-IV Language Reference Manual*, and *FORTRAN-IV RT-11/RSTS-E User's Guide*.

The following is a brief description of the programs:

- Lung Function Report — A medical report generator
- General-Purpose Program — To input, record, and list data in columns
- Bibliography — A package permitting storage and retrieval of bibliographical information
- BK.LAB — Order processing for biochemical clinical laboratory
- INRET — Sequential files DATA BASE allows a noncomputer expert to create and manage a data base
- Documentation — Stores and retrieves literature citations, including code, author, title, and so on
- XREF — Produces a FORTRAN cross-reference listing
- Drugs — A stock management package
- MCQ — Multiple-choice question program — a computer-assisted learning tool
- MEMPRG — Storage and retrieval program for memos, reports, and so on
- Bibliographic — 12 programs for research on bibliographies

DECUS number 11-573.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

EVOKE

Operating System: RT-11

Keywords: • A/D, D/A • Mapping • Medical
• Signal processing

Memory required: 64K bytes.

This program collects volume-conducted brain stem potentials evoked by auditory stimuli. Responses are collected over a 30-msec time frame — 5 msec pre- and 25 msec poststimulus. Sampling is at 10,000 samples/sec. Summed activity is displayed on line, using an oscilloscope, and off line, on a VT105. Four runs are maintained active on the system and can be manipulated, using routines for add, subtract, point smooth, cross-correlate, and z-score transform. Hard-copy plotting is contained in a subroutine passed the data array. Sampling rate, A/D-D/A address, and numbers of samples/run are easily modifiable in the MACRO routine. DECUS number 11-552.

Note: Developed on MINC-11; applicable to other PDP-11 systems.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

The HDCV Epidemiology System organizes and analyzes nosocomial data collected by a hospital's epidemiologist. Potential problem areas may be identified in the hospital by their infection rate. This system generates reports that analyze nosocomial data and reviews patient data associated with possible hospital-acquired infections. The Epidemiology System may be directly interfaced with the HDCV Bacteriology and Pharmacy systems.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Dr. Richard C. Howe, Director of Marketing
(804) 857-4551

HOSPITAL DATA CENTER OF VIRGINIA
962 Norfolk Square
Norfolk, VA 23502

Episodic Billing System

Operating System: RSTS

Keywords: • Accounts receivable • Billing • Medical
• Statistics

Suitable for either a stand-alone or a time-sharing environment, this interactive system handles the billing, collection, and statistical-gathering functions in hospital-based radiology and pathology. The system accumulates all charges for the patient until services are completed and manages accounts that need not be kept active.

The system offers reminder messages on statements, dunning letters, and optional automatic writeoffs of selected accounts. Also, the system displays all activity in a patient's account, accepts data on other computer media, produces media for insurance companies' computers, and searches for patients by either account number or name. The system produces a complete set of management reports, patient and insurance statements, and a detailed trail.

A version of this product is available for the VAX computer.

Price: \$7900 - \$12,500

Contact: Philip Lieberman, President
(812) 424-4974

PHILIP LIEBERMAN & ASSOCIATES, INC.
514 S.E. First Street
Evansville, IN 47713

European MINC Package #2 — Lab Management

Operating System: RT-11

Keywords: • Computer-aided instruction
• Data base management • Medical
• Report writer

Doctor Billing

Operating System: CTS-300, RT-11

Keywords: • Accounting • Billing • Medical • Statistics

Distribution media: magnetic tape, RL02.

This system tracks charges by patient or provider. Insurance and patient billing are featured with tracking of accounts receivable. Statistical reporting by doctor or service is automatically produced.

A version of this product is available for the VAX computer.

Price: \$5000

Contact: David L. Ley
(313) 855-6181

RADLEY BUSINESS COMPUTERS
7071 Orchard Lake Road, Suite 305
W. Bloomfield, MI 48033

DOSRES (Quantal Dose-Response Analysis)

Operating System: RSX

Keywords: • Chemical • Medical • Pharmaceutical
• Statistics

Memory required: 3600 words.

DOSRES computes the median dose and other dose-response curve parameters from a set of quantal observations. The sophisticated statistical developments incorporated in DOSRES permit input of individual (ungrouped) quantal observations. (Traditional probit or logit techniques demand grouping subjects and weighting data and poorly handled 0% and 100% responses.) DOSRES is particularly suited to analyzing drug studies in human subjects, for whom uniform dosing is rarely feasible.

Dose-response data are input from terminal, disk, or tape. The best-fitting logistic dose-response curve is computed by maximizing the likelihood function; as the solution is nonanalytical, estimates of the curve parameters are refined iteratively. Output comprises median dose (ED_{50}) and standard logit-response line. The latter aids in calculating other key values such as the ED_{95} and in constructing the dose-response graph. DECUS number 11-411.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Epidemiology System

Operating System: DSM

Keywords: • Biology • Data collection • Medical
• Report writer

Distribution medium: magnetic tape.

Price: \$15,000 – \$50,000

Contact: Mark A. Thomas
(913) 782-8544

RUF CORP.

1533 E. Spruce Street
Olathe, KS 66061

DFM (Dental Financial Manager)

Operating System: RT-11

Keywords: • Accounting • Dental

Developed by dentists for dentists, this program offers 999 recall codes, dual insurance billing, account aging and statements, complete patient history files, delinquent patient and insurance listings, general ledger, and more. DFM is modular and menu prompted, with on-screen help. The thrust of the program is practice development. Easy-to-learn and use tools, such as on-screen quick call, pending treatment, and patient files integrated with letter processing, enable the practice to expand immediately.

Price: \$2950 – \$7500

Contact: Don McKenzie
(702) 882-9313

PRO/SOFT

1519 Continental Drive
Carson City, NV 89701

Dietary Scheduling System

Operating System: RSTS

Keywords: • Calculation aids • Production control
• Scheduling • Statistics

This system provides menu planning and a patient's dietary profile (linked to a common data base used by PAIS, MRS, and RXS) and includes dietary restrictions and likes/dislikes. Used with the daily menu, this system produces patient meal cards that are coded for special diets, as well as production schedules.

This system includes a nutritional analysis module that enables dieticians to analyze any food item or an entire sample meal or cycle for nutritional components.

Price: Available upon request

Contact: David M. Pollack
(914) 423-3623

ADL DATA SYSTEMS, INC.

50 Stratton Street South
Yonkers, NY 10701

The D16 program enables the user to display part of dynamic study in D16 mode with absolute or relative scaling on the VSV-01 video display and to rapidly see the effect of different parameters — absolute/relative scaling, LT, UT, black/white versus color, UM switch — on the display. D16 works with 2- or 4-bit maps in VSV-01. Dynamic single or multigroup data and display parameters are shown simultaneously. For further documentation, see file D16.DOC.

The ROTA program allows the user to rotate or mirror-image all or parts of a dynamic study file. The program, written for use in T1-201 emission tomography of the heart with the SPETS-11 software, enables the user to reconstruct slices parallel to and perpendicular to the long axis of the heart individually for each patient. The angle can be given as a parameter or interactively. The program can also be used to determine angles on the VSV-01 video display. Dynamic single or multigroup studies with 64 x 64w or 64 x 64b matrices are handled. For further documentation, see file ROTA.DOC.

Some useful subroutines are also distributed together with D16 and ROTA. DECUS number 11-587.

Restrictions: PRE.SAV, an undocumented utility originating from Uppsala, Sweden, appears to work but is not absolutely necessary for compiling ROTA; see ROTA.DOC.

Note: Complete sources are included except for the VAVPKG/VSVLIB package, which originates from Erasmus University, Rotterdam, Holland, and has been distributed by GAMMA-11 Software Centre, Cologne. The utility PRE.SAV originating from Uppsala is also without sources.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

DataCare

Operating System: RSTS

Keywords: • Dental • Medical • Pharmaceutical

This system provides a complete data processing solution for community health care and is built around the relational data base management system IMPRS, which enables inexperienced users to create their own special reports. DataCare includes patient registration and scheduling, insurance billing, medical records, BCRR reporting, pharmacy, accounts payable, and general ledger functions.

A version of this product is available for the VAX computer.

Price: \$55,000

Contact: Matthew Ehrlich

(516) 764-5953 or (800) 645-5959

ADVANCED MEDICAL SYSTEMS

36 Maple Avenue

Rockville Centre, NY 11570

CP-Physician

Operating System: UNIX* (System V)

Keywords: • Billing • Data base management • Medical
• Scheduling

This multiuser, multitasking medical office management system has facilities for weekly/monthly statements, insurance processing — crossover, copay, partial pay, Medicare, Medicaid write-offs — receipt processing — batch, individual, insurance claims — transaction entry — batch or individual — and appointment scheduling. Patients are accessed primarily by name, although number access is included. A guarantor index allows access to patient records if the patient's name and number is unknown but guarantor is known. Internal switching provides selection for special practice types, family billing, and anesthesiology. The system has no practical limits on patient numbers, on-line patient detail, on number of insurance companies, on number of practicing physicians, on number of procedure or diagnosis codes, and on places of service. The system translates practice procedure and diagnosis codes into standard codes on insurance forms; a data base scan facility searches for patients associated with particular procedure or diagnosis codes. The system also offers extensive report capabilities for management.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$5000 — \$20,000

Contact: Donald H. Goeke

(205) 344-8100

CPSI

501 Bishops Lane

Mobile, AL 36608

D16 and ROTA Programs for GAMMA-11

Operating System: RT-11

Keywords: • Diagnostics • Graphics • Medical

Memory required: 12KW.

This real-time, fully automated information system for hospitals integrates all aspects of materials handling and provides administrative lists, reports, logs, and audit trails on demand. Users can capture, process, display, and retrieve information instantly. The major modules are as follows:

- The Catalog System for purchasing and inventory allows the user to manage and update catalogs, such as pharmacy and surgical supply.
- Vendor Management keeps a file of valid vendors, allows users to track and maintain current and potential vendors on an item-by-item basis and coordinate purchase contracts, and automatically generates and tabulates bid requests.
- Purchase Requisitioning creates requisitions based on budget, inventory balances, contract/bid data, and chart of account codes on an automatic or manual basis. Other functions include recall and cancellation of requisitions, plus several levels of approval based on authority codes and/or encumbrances.
- Purchasing automatically creates and prints purchase orders based on new or previously entered data. The module checks vendor status; provides descriptions, price, and unit data; and updates delivery information and inventory.
- Delivery allows the user to schedule, monitor, expedite, and confirm deliveries in a real-time mode. The extensive audit trail can be interfaced to the spending controls in Budget Management.
- Receiving updates incoming-item data, monitors inventory maintenance, interacts with "material on order," updates files on outstanding delivery information, and provides various reports.
- Order Entry allows material ordered to be entered directly at the terminal, providing a flow-through process for future issuance, back ordering, or purchase requisitioning. The module validates catalog numbers, checks balances, and maintains a data base of unfilled orders and "material on order" for follow-up action. All patient charge data is updated as well.
- Inventory Management contains the data bases for all inventory transactions. The module's Distribution Analysis Data Base determines whether purchases are required. As the core of the ConTrol system, this module keeps a perpetual inventory in real time, automatically manages back ordering, and generates purchase requisitions based on minimum balances, bids, and contracts.

Those programs are highly interactive. Common entries need be entered only once to update all aspects of the system.

The ConTrol Materials Management System is available in a choice of turnkey or economical time-shared packages with full interface capabilities.

COMPU-CHART — Medical Records Program for Long-Term Care Facilities

Operating System: RSTS

Keywords: • Data entry • Medical • Pharmaceutical
• Report writer

The on-line, interactive medical records system for long-term care facilities allows medical records personnel to enter all patient data, both personal and medical, and to generate up-dated physician's orders, medication records, and treatment records. The system uses either problem or group charting. Features include specialized orders, including dietary, pharmaceutical, and lab work; physical, speech, respiratory, occupational, and activities therapies; and extensive documentation. The system can interface with COMPU-CARE Accounts Receivable System to eliminate costly duplication of data entry.

Price: \$3000 – \$6000

Contact: David Ingram, Vice President

(219) 753-0411

COMPU-SHARE

2 Chase Park

Logansport, IN 46947

COMPU-TRIEVE — Report Writer and Data Manager

Operating System: RSTS

Keywords: • Data base management • Medical
• Report writer

This on-line interactive system allows reports to be written from existing files; or, unsophisticated users can set up their own files, based on their own criteria. The system then creates the data entry program that prompts the user for the data to be entered. User-defined criteria and reports can be printed. The report criteria can be stored and reports rewritten or additional criteria set up.

Price: Available upon request

Contact: David Ingram, Vice President

(219) 753-0411

COMPU-SHARE

2 Chase Park

Logansport, IN 46947

ConTrol — Materials Management Information System

Operating System: DSM

Keywords: • Inventory • Materials handling • Medical
• Purchasing

Price: \$30,000 +

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

Comprehensive Blood Bank System

Operating System: DSM

Keywords: • Accounting • Medical

This product, written in DSM, addresses both the medical and financial requirements of the regional blood bank and includes donor solicitation and recruitment, blood processing and testing, blood and blood products inventory control and disbursement, patient compatibility and cross match, and administration and finance. Those features greatly assist in the recruitment of donors, as well as in the long-term record-retention requirements of blood banks.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Bryan LeBlanc
(214) 231-6591

RUBICON CORP.
1200 E. Campbell Road
Richardson, TX 75081

COMPU-CARE — Accounts Receivable for Long-Term Health Care Facilities

Operating System: RSTS

Keywords: • Accounts receivable • Audit • Medical
• Menu handlers

This menu-driven set of programs can handle all the charges, receipts, agings, and electronic or tape claims submittal for long-term care environments. The on-line, interactive system has an excellent audit trail, including batch controls on all data; fast, effective data entry on either CRT or hard-copy terminals; straightforward interfacing to COMPU-CHART medical records, to general ledger, and to other applications; extensive documentation; easy customizing; and includes third-party electronic billing and patient personal-funds programs.

Price: \$10,000 - \$20,000

Contact: David L. Ingram, Vice President
(219) 753-0411

COMPU-SHARE
2 Chase Park
Logansport, IN 46947

The system provides improved patient care through reduced turn-around time for routine and stat tests with DRG statistics and legible, concise test requests and reports; performs simplified statistical analysis; identifies abnormal results; and eliminates misplaced, erroneous billings.

A version of this product is available for the VAX computer.

Price: \$99,500 – \$900,000

Contact: Allan G. Penny

(617) 237-7055

SYSTEM ANALYSIS CORP.

1 Hollis Street

Wellesley, MA 02181

CLINIC-MANAGER®

Operating System: RSTS

Keywords: • Accounting • Information management
• Medical

Distribution media: 800 bpi magnetic tape, RL02, RM03.

The modular CLINIC-MANAGER system is fully integrated, interactive, and complete. The software was designed from the user's viewpoint, and the package's CRT screens are logical and simple.

Software features include patient accounting and billing, claims and claims monitoring, practice statistics, appointments, medical records, general ledger, fee modeling, payroll, accounts payable, drug interaction, patient searches for recalls, and illness (diagnosis).

A version of this product is available for the VAX computer.

Price: \$10,000 – \$75,000

Contact: Jim Baker

(405) 943-9818

EDP SYSTEMS, INC.

4900 N. Portland

Oklahoma City, OK 73112

COMPCARE (Comprehensive Care Centers)

Operating System: RSTS

Keywords: • Billing • General ledger • Medical • Payroll

Distribution media: 9-track 800/1600 bpi magnetic tape, RK07, RL01, RL02.

The COMPCARE system covers patient history, billing (including third parties), payroll, general ledger, statistics, grant reporting, HHS reports, and so on. The system components are interactive, friendly, and complete — for use in-house or on a time-share system.

A version of this product is available for the VAX computer.

Developed by Technical Evaluation and Management Systems, Inc., this integrated, user-friendly, menu-driven, and protocol-driven system of programs is written for the clinical trial environment.

CLIN-TEAMS/Remote is offered in a BASIC-PLUS-2 version to run under RSX-11M or VMS operating systems and, with the appropriate software, can be transferred to small, remote computers for data collection. Data is collected by filling in case report form images on the CRT in the investigator's office. A simultaneous journaling option permits on-site generation of hard-copy CRFs. Data can be transferred back to a host computer at predetermined intervals for integration into the central data base.

Data collection formats for new studies can be set up (protocol compiled) interactively without reprogramming. Branching logic within the system provides the ability to go to specific questions, based on the response to the current question. CLIN-TEAMS/Remote provides the audit trails required by FDA guidelines. Additionally, CLIN-TEAMS/Remote provides a monitoring report-generating facility that allows the user to tailor interim reports; allows the unloading of data to a sequential data file for use with statistical-analysis programs such as SPSS, BMDP, and SAS, and allows other programs to run while CLIN-TEAMS/Remote is being used. Thus, CLIN-TEAMS/Remote can fit into a multiuser, multiprogramming environment on the host computer.

A version of this product is available for the VAX computer.

Price: \$46,500

Contact: Floyd E. Leaders, Jr., Ph.D.
(214) 386-5764

TECHNICAL EVALUATION AND MANAGEMENT
SERVICES, INC.

13601 Preston Road, 820 Carillon Tower West
Dallas, TX 75240

Clini-CAL® Laboratory Information System

Operating System: RSX

Keywords: • Data base management • Medical • Scientific

This comprehensive turnkey system for both large and small clinical laboratories is written in FORTRAN and interfaces with most lab instrument devices. Customized to meet a laboratory's specific needs, Clini-CAL computerizes laboratory data, generates reports, and manages quality control, sample processing, and billing. The system can be used in the clinical pathology laboratory, pulmonary respiratory therapy, and patient registration.

CDS (Clinical Data System)

Operating System: RSX

Keywords: • Data base management • Decision support
• Graphics • Statistics

CDS is a comprehensive data management system with graphics, statistics, and full user-configuration editors for hospitals and clinics. The system is designed for clinicians, doctors, and nursing staff and requires no computer programmer support.

Price: \$9000 – \$30,000

Contact: Sales Manager

(01) 994-6477

CLINICAL COMPUTING LTD.

10 Barley Mow Passage

London W4 4PH

United Kingdom

CHARGER

Operating System: RSTS

Keywords: • Calculation aids • Financial analysis • Statistics

Memory required: 256K.

This DRG (Diagnosis Related Group) prospective pricing software package for hospitals provides statistical and financial information based on the latest government DRG regulations for patient reporting and reimbursement. CHARGER automatically recognizes and flags per-diem or day- or cost-outlier conditions and calculates per-diem or outlier adjustments. The package separately projects both the direct reimbursement from health care intermediaries and the total reimbursement to teaching hospitals, including federal educational reimbursements. CHARGER interfaces readily with other hospital systems, such as billing, patient records, and case-mix analysis, to generate statistical reports and projections and may also be used interactively for evaluating individual cases.

A version of this product is available for the VAX computer.

Price: \$3000

Contact: Martha A. Scott

(617) 861-0670

EVANS GRIFFITHS & HART, INC.

55 Waltham Street

Lexington, MA 02173

CLIN-TEAMS®/Remote

Operating System: RSX

Keywords: • Data collection • Medical • Scientific

Price: \$80,000 – \$150,000

Contact: Donald J. Lumbert, National Sales Manager
(617) 662-2227

PIONEER MEDICAL SYSTEMS

37 Washington Street

Melrose, MA 02176

CARE/DM

Operating System: RSTS, RSX

Keywords: • Accounts receivable • Dental
• Information management • Medical

This software may be licensed for single and multiuser timesharing, software distributors, and care centers as a turnkey system for single or group practices or for hospital physician billings. CARE/DM's parameter-driven structure provides flexibility for the multispecialty environment, with no limit on the number of physicians or patient accounts (subject only to the size and performance of the CPU and disk).

CARE/DM is a medical and dental office automation system used interactively to capture, control, process, and analyze patient service information. The system emphasizes accounts receivable management: service capture, billing, insurance forms preparation, and collection control. The primary design goal is to provide a single source of information entry with the automatic maintenance, application, and distribution of patient service information. Uniform processing procedures have been implemented to increase the accuracy, productivity, and effectiveness of administrative personnel.

The system includes patient information registration and billing, automatic insurance processing and ECS, microfiche records/magnetic history, service recording, reporting, patient and room scheduling, recall-notice preparation, referral tracking, contract payment plans, collection tracking and follow-up, letter writing, dental processing, model and storage inventory, access control and help, mail messages, notices, and parameter selection to provide customization for all medical/dental specialties, without programming changes.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$35,000

Contact: Kent M. Brost
(217) 522-2273

CARE INFORMATION SYSTEMS, INC.

3009 S. Sixth Street

Springfield, IL 62703

Price: Available upon request

Contact: Bryan LeBlanc

(214) 231-6591

RUBICON CORP.

1200 E. Campbell Road

Richardson, TX 75081

Blood Bank System

Operating System: DSM

Keywords: • Data base management • Inventory • Medical
• Statistics

Distribution medium: magnetic tape.

The HDCV Blood Bank System maintains and controls data in a hospital blood bank. Complete blood product inventory, blood unit status, and disposition of blood derivatives, transfusions, reactions, atypical antibodies, and test results are maintained on line.

The Blood Bank System produces listings of short-dated units of blood, blood release information, and cross-match lists. The system interfaces with the HDCV Patient Data Management, Laboratory, and Pharmacy systems.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Dr. Richard C. Howe, Director of Marketing

(804) 857-4551

HOSPITAL DATA CENTER OF VIRGINIA

962 Norfolk Square

Norfolk, VA 23502

CAMS (Computerized Arrhythmia Monitoring System)

Operating System: Independent, RSX

Keywords: • Data collection • Medical

This system is appropriate for use in the hospital ICU and CCU environment. CAMS detects, classifies, and stores arrhythmias and simultaneously trends physiological parameters and computes hemodynamic values.

In addition, CAMS uses a patented easy-to-use arrhythmia recall technique that offers a recall rate 200 times the speed of real time. Each recall frame contains 8 seconds of ECG. As a result, the clinicians can rapidly review, edit, and verify arrhythmias for more accurate diagnosis and treatment.

A single CAMS system can arrhythmia monitor and trend up to 32 patients. To accommodate multiple units within the hospital area, a total of 16 terminals can be added.

24-hour access to the bacteriology information stored in the computer. The Bacteriology System may be used simultaneously with the Laboratory, Blood Bank, Epidemiology, Pharmacy, and other medical systems available through HDCV.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Dr. Richard C. Howe, Director of Marketing
(804) 857-4551

HOSPITAL DATA CENTER OF VIRGINIA
962 Norfolk Square
Norfolk, VA 23502

Basic Image-Processing System for CAT Scans

Operating System: RT-11

Keywords: • Graphics • Medical • Nuclear

Memory required: 16K.

This complete image-processing software system, written in FORTRAN/RT-11, contains programs for decoding magtapes in any arbitrary format and transferring selected contents to disk. Subsequent line-by-line processing of the CAT scan images produces averages, laplacians, gradients, median smoothing, and hyperbolic grey-level reassignments. An application of the system to images from an Ohio Nuclear Delta Scan is described. DECUS number 11-321.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Billing and Accounts Receivable System

Operating System: DSM

Keywords: • Accounting • Billing • Insurance • Medical

This system, written in DSM-11, allows laboratory and pathology organizations to produce statements, bills, insurance claim forms, and tape/electronic transmissions for a variety of laboratory testing services and provides a full accounting capability with audit trails and appropriate accounting controls. For statements to clients, an extensive pricing system automatically accommodates multiple-fee schedules, medical specialty pricing, client-specific pricing, multiple-profile levels, unit discounts, volume discounts, and base-business discounts. For bills to patients, the system supports detail statements with multiple follow-up and reminder bills. Insurance processing features include carrier-specific pricing, profile assembly, procedure coding, diagnosis coding, and multiple-claim formats.

A version of this product is available for the VAX computer.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Dr. Richard C. Howe, Director of Marketing
(804) 857-4551

HOSPITAL DATA CENTER OF VIRGINIA
962 Norfolk Square
Norfolk, VA 23502

AutoScript Pharmacy System

Operating System: CTS-300, RT-11

Keywords: • Accounts receivable • Medical • Pharmaceutical

AutoScript systems are designed for automating pharmacy practices. Products include turnkey (stand-alone) or networked (on-line) systems. Community pharmacies as well as chain pharmacies or drug wholesalers wishing to offer this service can effectively use AutoScript units as stand-alone, clustered, or on-line systems.

Applications include retail pharmacy, accounts receivable, and nursing home pharmacy, including support for unit dose functions. Another option provides for support of durable medical equipment either in a stand-alone system or integrated with Pharmacy. Multiple terminals are supported at remote stores connected to an on-line system. Multiple-terminal support, either local or remote, for turnkey stand-alone systems is standard. All systems are field expandable and field proven.

Price: \$8000

Contact: John P. Grise
(203) 242-2358

AUTOSCRIPT, INC.
11 Mountain Avenue
Bloomfield, CT 06002

Bacteriology System

Operating System: DSM

Keywords: • Data base management • Medical
• Report writer • Statistics

Distribution medium: magnetic tape.

The HDCV Bacteriology Information System provides a computerized data management system for a hospital microbiology laboratory. The on-line system maintains all patient specimen information and produces statistical reports. The system also provides interim reporting of specimen results, including drug sensitivities; a complete report of all bacteriology work for a patient being discharged; a daily master log of all specimens; abnormal-results reporting; and instant

Payroll accommodates multistate and multibranch agencies. Other features include PDOs, shift differentials, special employee deductions, and pension fund.

General Ledger has budget forecasting capabilities.

Price: \$7500 – \$35,000

Contact: Holly Hollingsworth, Director of Software Development
(404) 955-6375

APEX MEDICAL SYSTEMS, INC.
1759 Venlo Court, Suite N
Marietta, GA 30067

APS (Accounts Payable System)

Operating System: RSTS

Keywords: • Accounts payable • Statistics

This program, designed for health care facilities, features choice of payment by open invoice or payment on account; automatic check writing and tape-to-tape check reconciliation; direct disbursements, which generate internal invoice and direct posting to general ledger with multiple G/L distributions; and on-line inquiry of invoices or payments.

Price: Available upon request

Contact: David M. Pollack
(914) 423-3623

ADL DATA SYSTEMS, INC.
50 Stratton Street South
Yonkers, NY 10701

Archival System

Operating System: DSM

Keywords: • Medical • Report writer • Statistics

Distribution medium: magnetic tape.

The HDCV Archival System provides on-line computer access to historical patient information. Data is automatically extracted through the Patient Data Management (PDM) System into the Archival System, providing a complete master patient index. The Archival System speeds registration and provides a reference for the medical records department, retrospective statistical studies, and historical and cross-reference data to the accounting department to assist in debt collection.

Access to the archival master file can be by archive number, by patient name through an alphabetical cross-reference file, and by a "soundex" method that maps like-sounding names to the same index. A report generator module also allows each hospital to design and print reports according to its particular schedules.

ABS (Anesthesia Billing System)

Operating System: RSTS

Keywords: • Accounts receivable • Billing • Medical

ABS is designed to calculate fees based on time, using either CPTs or RVS. The system offers a complete audit trail of all financial entries to ensure total control; extensive information, either in an aged summary or in detail for answering patient telephone inquiries; and individualized procedure codes, including modifiers, descriptions, and prices. Diagnosis codes are maintained either individually or through a central file. Special messages and individualized dunning messages for each user are provided, selected automatically based on the aged balance and payment transactions. Statement codes that allow exceptions on dunning messages, statements, and finance charges are provided. Automated batch processing of programs is provided for cyclically generated reports.

Reports generated by ABS include edit, patient journal, accounts receivable, production analysis, revenue summary, year-to-date production revenue, budget payments, agency suspense, credit balance, and others.

A medical statistics screen is available that allows the user to trace medical information by patient.

Price: \$7500

Contact: Dick Pugh

(206) 343-5656

MED-DATA, INC.

800 4th and Battery Building

Seattle, WA 98121

Apex Home Health Management System

Operating System: RT-11

Keywords: • Accounting • Billing • Payroll • Statistics

This system runs single-user and multiuser (TSX-PLUS) under RT-11 on the PDP-11/23 and 11/73. All four system modules — Visit Entry/Aged Receivables, Payroll, Accounts Payable, and General Ledger — also run on the Rainbow 100+ under MS-DOS.

The VE/AR module stores patient information for statistical and recertification reporting. Transaction Entry captures all necessary data to produce computer-printed and/or electronically transmitted Medicare, Medicaid, private insurance, and private billing claims for nursing visits, therapist visits, supplies, and DME. This module also produces reports for inventory control, employee time/cost analysis, and cost reporting.

Health Care



Elizabeth Crews/Stock, Boston



Price: \$4000 - \$6000

Contact: James W. Sanderbeck, Vice President
(216) 489-1885

PM COMPUTER SERVICES CO.
630 - 30th Street, N.W.
Canton, OH 44709

Price: \$2000 - \$5000

Contact: Ronald R. Kirchhoff
(806) 293-4286

KMK ENTERPRISES, INC.
701 Broadway, Suite 204
Plainview, TX 79072

Voter-11

Operating System: CTS-300, RSTS, RT-11

Keywords: • Information management • Recruiting
• Report writer

This comprehensive voter registration and reporting package is designed to provide on-line inquiry into voter information and to provide flexibility in maintenance of the file when used for selection of prospective jurors. Features include alphabetical and numerical listing of the master file, voter registration card generation, report of deleted/purged voters, and random jury selection.

A version of this product is available for the VAX computer.

Price: \$2000 - \$8000

Contact: Ronald R. Kirchhoff
(806) 293-4286

KMK ENTERPRISES, INC.
701 Broadway, Suite 204
Plainview, TX 79072-7353

Voter Registration System

Operating System: CTS-300, RSTS, RT-11

Keywords: • Information management • Law • Real time

This on-line real-time system provides complete computerized recording of registered voter additions, changes, and deletions along with election accountability, jury lists, and automatic state reporting as required by law. Inquiry capability by county ID number or by name, as well as automatic checking for duplication before addition, ensure accurate, timely voter information. Interactive files include voter master file, state update file, precinct description, state cross-reference, election update, state election update, and annual voter purge.

Voters are sorted alphabetically by precinct, and voter lists are generated to post at polling places. The software generates signature poll books; reports of registered voters by party; jury selection lists and labels; a report by congressional, House, Senate, or court district; and reporting of registration activity to the state. The Voter Registration System also updates monthly the county file from state tape, generates voter lists and labels, creates an annual voter purge list and labels, and generates a voting history (five elections for four years) and accountability reports.

Title System

Operating System: CTS-300, RT-11

Keywords: • Information management • Law • Real estate

This on-line real-time title fee system provides complete computerization of title additions, title voids, replacement titles, inactivation of titles, and recording of duplicate titles. Major features are notation and discharge of liens and the printing of titles, memo titles, and intercounty surrender forms. Inquiry capability of both active and inactive titles by title number or owner's name is provided. Interactive files are title master file, title history file, lien master file, dealer master file, bank master file, city reference file, and deputy file.

Title System double checks that tapes and files are computed correctly and properly signed, eliminates the need to index titles and to tear apart or sort titles each day, eliminates cancellation of old title when new title is issued, eliminates title search for intercounty surrender forms received and manual title search for notations or discharge of lien, eliminates sorting of intercounty surrender forms issued, and reduces the number of voided titles. In addition, titles have no strike-out or improper alignment, memo titles can automatically be printed at any time, an alphabetical index allows for easy title search without title number, tax forms are prepared by computer, and state reports do not have to be prepared manually.

Price: \$4000 - \$6000

Contact: James W. Sanderbeck, Vice President
(216) 489-1885

PM COMPUTER SERVICES CO.
630 - 30th Street, N.W.
Canton, OH 44709

VEH-11 (Vehicle Registration)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Automotive • Maintenance

Digital Software Services Vehicle Registration system records, maintains, and reports information about registered vehicles. The system also maintains the file for reporting vehicles to be reregistered. VEH-11 allows office personnel to accurately report information about vehicle registration to the vehicle registrar. Vehicle lists may be printed alphabetically or numerically or by class. The software also generates a report of vehicles due to be reregistered for each month of the year alphabetically or by the validation or tag number.

A version of this product is available for the VAX computer.

This complete data processing system, designed for municipal governments and governmental utilities, includes a consumer billing system (approximately 500 programs) that allows for simultaneous or separate billing of electric, water, sewerage, gas, refuse, and steam. Financial applications are also included to provide payroll, general accounting (fund, encumbrance, appropriations, and budget), accounts payable/purchasing, materials and supplies, and a complete work order cost accounting system, which includes maintenance of continuing property records. This software conforms to all REA, TVA, and DOE accounting standards, as well as to known PURPA regulations. The system also offers management information applications, including vehicle analysis, bad-debt service order management, fixed assets, electronic spreadsheet, TVA reporting, outage reporting, transportation, utilicorder, and service order management. An electrical distribution engineering system is available that includes transformer load management, voltage-drop calculations, and switching studies.

A version of this product is available for the VAX computer.

Price: \$35,000 – \$250,000

Contact: H. V. Bonds, Jr.

(803) 799-4094

DIGITAL SYSTEMS, INC.

P.O. Box 12

Columbia, SC 29202

Tax-11

Operating System: CTS-300, RSTS, RT-11

Keywords: • Property management • Real estate • Taxes

Tax-11 is a comprehensive interactive ad valorem (property) tax assessment and collection package. It is designed to provide on-line inquiry into taxpayer information and to provide flexibility in maintenance of taxpayer information, discount/penalty rates, property values, exemption values, and tax rates.

A version of this product is available for the VAX computer.

Price: \$7500 – \$20,000

Contact: Ronald R. Kirchhoff

(806) 293-4286

KMK ENTERPRISES, INC.

701 Broadway, Suite 204

Plainview, TX 79072-7353

Price: \$2000 - \$4000

Contact: Ronald R. Kirchhoff
(806) 293-4286

KMK ENTERPRISES, INC.
701 Broadway, Suite 204
Plainview, TX 79072

MPY-11 (Municipal Payroll)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Payroll

This sophisticated payroll processing, reporting, and check-writing system allows the user to define unlimited pay items and deductions that may be posted for each employee. Any type of pay or deduction can be used — hourly, salary, piece rate, percentages, and so on. All necessary tax reporting can be captured during the payroll posting. Multiple state records can be maintained for an employee working in more than one state. EIC calculations and tip reporting can be accommodated when applicable. Check registers follow each posting session, detailing each check written. Any changes made to salary amounts during the posting process are noted on the check register for security purposes. Historical information is maintained for each employee for any date range specified. A tailoring option converts the calculations, screen descriptors, and menu selection to a Canadian payroll system. Any style of check can be accommodated with the user-defined parameter files. The MPY-11 system interfaces to the MGL-11 system for automatic posting of the payroll to the G/L. Governmental reports, such as W-2 forms and quarterly payroll reports, and management-oriented reports, such as pay rate changes, terminations, historical check registers, and so on, are easily generated and printed.

A version of this product is available for the VAX computer.

Price: \$2000 - \$4000

Contact: Ronald R. Kirchhoff
(806) 293-4286

KMK ENTERPRISES, INC.
701 Broadway, Suite 204
Plainview, TX 79072

RECAP

Operating System: RSTS

Keywords: • Accounting • Billing • Information management
• Utilities

by the user with parameter files. Recurring customer account charges can be made. All reporting for management on account dollar activity is available for any date range. Aging analysis for any date range can be comprehensive or by department. Sales tax reporting is also provided by the system. Multiple taxing entities can be accommodated. MAR-11 operates in a single-user (in-house) environment or in a multiuser (time-share) environment. The MAR-11 system interfaces with the MGL-11 system for direct posting of A/R entries to the G/L.

A version of this product is available for the VAX computer.

Price: \$2000 - \$4000

Contact: Ronald R. Kirchhoff

(806) 293-4286

KMK ENTERPRISES, INC.

701 Broadway, Suite 204

Plainview, TX 79072

MGL-11 (Municipal General Ledger and Financial Reporting)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounting • General ledger

The date-driven MGL-11 system records and reports financial information and allows the user to design financial statements, using parameter files. Tailoring codes allow the user to define the length and the format of the chart-of-account number, the format of the date used for data entry and reporting purposes, and the existence of "proof" copy journals after posting sessions. Multiple posting forms allow a variety of data input forms. Standard and allocation journals allow the user to automate certain postings that regularly are made to accounts for either set dollar amounts or set percentages of account balances. Up to 13 accounting periods may be defined by the user for both the current and prior years. Budgetary and prior-year comparison information may be entered. All reporting from the MGL-11 system is available for any user-specified date range. Many different financial statements can be designed by the user, including balance sheets, income statements, loan analysis, ratio analysis, change in financial position, and so on. The system interfaces with payroll, utility billing/accounts receivable, accounts payable, and payroll for a completely integrated accounting system.

A version of this product is available for the VAX computer.

Price: \$2000 - \$20,000

Contact: Ron Morris
(412) 264-4773

ISR MUNICIPAL SYSTEMS, INC.
410 Rouser Road, Airport Office Park, Building 1
Coraopolis, PA 15108

MAP-11 (Municipal Accounts Payable)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts payable

This highly flexible method of posting A/P charges and making cash disbursements is done with interactive screen forms designed for posting ease. In the A/P charges posting form, the user is allowed an unlimited number of distributions to the MGL-11 system for each invoice entered. Discount information is assigned to the vendor for automatic display at posting time but may be overridden by the operator if desired. Vendor charges that occur repeatedly may be placed in an automated file for posting on operator demand. Cash disbursements may be made on an individual invoice basis, or a certain dollar amount may be applied to the oldest invoices first (balance-forward method). Checks may be printed following each disbursement session. Unlimited check formats can be accommodated with the user-defined parameter files. All reporting is available for an unlimited date range, on demand by the user. Aging reports are available that detail the invoices that are current, past due, or not yet due. Cash-requirement reporting is also available as a management tool. The MAP-11 system interfaces to the MGL-11 system for automatic posting of A/P information to the G/L.

A version of this product is available for the VAX computer.

Price: \$2000 - \$4000

Contact: Ronald R. Kirchhoff
(806) 293-4286

KMK ENTERPRISES, INC.
701 Broadway, Suite 204
Plainview, TX 79072

MAR-11 (Municipal Accounts Receivable)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts receivable

This system provides the user with an interactive method of posting A/R charges and payments, obtaining historical reports and aging information, and creating statements. Cash receipts may be applied on a balance-forward or open-item basis. Unapplied credits may be posted to accounts until the correct invoice can be matched and paid. Virtually any statement and past-due notice format can be designed

LEADSSM (Logistics Entry and Analysis Data System)

Operating System: RSTS, UNIX* (Version 7)

Keywords: • Data entry • Forms management • Report writer

LEADS is an interactive package used to enter and edit data for logistic support analysis records required of defense contractors under MIL-STD-1388. LEADS significantly reduces task analysis and data sheet preparation time by eliminating duplicate entries. LEADS automatically transfers derivable information from previous entries to other required fields, eliminating errors, simplifying updates, and allowing for global changes and special management reports.

LEADS prints government-required logistics data sheets and interfaces directly with government-furnished summary report software.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$50,000

Contact: Eli Schneider, Project Manager
(703) 979-8220

EVALUATION RESEARCH CORP.
1755 Jefferson Davis Highway, #800
Arlington, VA 22202

MAMS (Municipal Accounting Management System)

Operating System: RT-11, TSX-PLUS

Keywords: • Accounting • Information management • Taxes

This computer-based information system for small to medium-size local governments includes Fund Accounting (General Ledger, Accounts Payable, Accounts Receivable), Payroll/Personnel Management, Real Estate Tax Collection, Income Tax Collection, and Utility Billing modules. A report and graphics program generator, which integrates to all modules, is also available.

MAMS conforms to all NCGA (National Council on Governmental Accounting) and MFOAC standards. All MAMS-generated financial statements conform to generally accepted accounting principles, and clear audit trails are produced for all transactions within the system. The MAMS system includes the compiled software (source-level code is available for qualified distributors), a 250-page user's guide, and simplified operator charts that assist key personnel unfamiliar with on-line systems. A special distributor program for MAMS is available to qualified systems houses.

A version of this product is available for the VAX computer.

The interactive Section 8 system replaces a tedious, error-prone manual undertaking with a simple, reliable system for automating a HUD Section 8 Rent Subsidy Program. The Section 8 system maintains tenant, landlord, and statistical information necessary to meet and exceed the federal government reporting standards placed on a Housing Authority agency. Screen-formatted data entry encourages user acceptance, decreases user training, and increases data integrity.

In addition to automating the clerical and reporting functions of a Housing Authority with a Section 8 program, the Section 8 system offers a consistency in accounting and in reporting in an otherwise volatile atmosphere.

A version of this product is available for the VAX computer.

Price: \$6000 - \$16,000

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

Housing Authority Tenant Accounting

Operating System: RSTS

Keywords: • Billing • Property management • Real estate
• Statistics

Distribution media: 9-track 800/1600 bpi magnetic tape, RK07, RL01, RL02.

This interactive system automates the record keeping and reporting and drastically reduces the amount of handwork normally associated with public housing authority offices. The record-keeping problems of public housing authorities, no matter what size, are virtually the same: massive amounts of paperwork, the need for enormous amounts of tenant and statistical information and accounting control, HUD reporting requirements, and information necessary to fulfill requests of other federal, state, and local agencies. The Tenant Accounting system automates those clerical and reporting functions while providing certain intangibles to this, and future, administrations: a continuity of accounting and a continuity of information.

A version of this product is available for the VAX computer.

Price: \$8000 - \$23,000

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

Price: \$14,000 - \$33,000

Contact: Ronald R. Kirchhoff
(806) 293-4286

KMK ENTERPRISES, INC.
701 Broadway, Suite 204
Plainview, TX 79072

Government Payroll System

Operating System: CTS-300, RSTS, RT-11

Keywords: • Payroll • Personnel • Taxes

This on-line real-time system provides complete computerization of employee pay records, interactive entry and editing of new payroll transactions, and current and year-to-date information available through inquiry. The program handles PERS, SPRS, STRS, and SERS, and its menu-driven technology is easy to use, providing recap information by fund and automatic warrant product for deductions at the end of each fund.

Available are add, change, and delete maintenance functions for files, complete tax withholding if desired, complete fund and department accounting, up to 13 voluntary deductions, temporary deductions, and display of current and year-to-date information on CRT inquiry. Adjustments to an employee's pay become a part of the employee's permanent detail record.

Available are active and inactive alphabetical employee listing; certifying format indicated at end of each department; listing of civil service employees; payroll register; warrants with year-to-date information on stub; monthly recap; deduction registers; monthly PER, SPR, STRS, and SERS reports; quarterly withholding tax reports; individual payroll ledger; W-2 forms; and special reports.

Price: \$5000 - \$8000

Contact: James W. Sanderbeck, Vice President
(216) 489-1885

PM COMPUTER SERVICES CO.
630 - 30th Street, N.W.
Canton, OH 44709

Housing Authority — Section 8

Operating System: RSTS

Keywords: • Property management • Real estate

Distribution media: 9-track 800/1600 bpi magnetic tape, RK07, RL01, RL02.

This comprehensive interactive system manages small to medium-size county or municipal governments. The software system consists of nine modules: Accounts Payable, Accounts Receivable Sales Tax, General Ledger, Occupational License, Payroll, Property Tax, Sales Tax, Utility Billing, and Word Processing.

Each module includes the basic elements included in any financial package, plus many extras unique to state and federal reporting. GOV-11 has been designed for governmental entities that are acquiring their first computer system. The system provides user-friendly procedures and a comprehensive, easy-to-understand operating manual.

Each turnkey system includes initial on-site training and continuous support. Program modification and customization are available. A sample packet containing reports, documentation, and forms is available. Dealer inquiries are encouraged.

Price: \$15,000 – \$25,000

Contact: Robert L. Metzger, President

(504) 542-1479

DIGITAL COMPUTER SYSTEMS, INC.

31 Darrell Drive

Hammond, LA 70401

Government-11

Operating System: RSTS

Keywords: • Accounting • Information management

This system provides all the services and capabilities provided in KMK's MAP-11 Municipal Accounts Payable system, MGL-11 Municipal General Ledger/Financial Reporting system, MPY-11 Municipal Payroll system, MAR-11 Municipal Accounts Receivable system, VEH-11 Vehicle Registration/Reporting system, TAX-11 Tax Assessment/Collection system, Voter-11 Voter Registration system, and Appraisal-11 Property Appraisal system. In addition to the wide range of reporting capabilities, Government-11 can be tailored to both in-house and service bureau/time-share environments. The system can be purchased with all the previously mentioned packages, or the packages can be purchased in any combination as needed by the user. All packages use interactive screen entry.

For city governments, substitute UTL-11 Utility Billing/Accounts Receivable system for MAR-11 and VEH-11.

A version of this product is available for the VAX computer.

The system provides for detailed tracking of property receipts, jail and arrest information, court subpoena schedules, and administrative functions for internal control that include departmental inventory, shift scheduling, personnel facilities, and electronic mail interface.

Other FCI city government software modules include Fire, Personnel, and Building and Zoning.

Price: \$10,000 – \$30,000

Contact: Shelia A. McPartland
(305) 652-1710

FLORIDA COMPUTER, INC.
99 N.W. 183rd Street, Suite 126
North Miami, FL 33169

GIMS (Government Information Management System)

Operating System: CTS-300, RSTS

Keywords: • Accounting • Financial management
• Inventory • Payroll

This fully integrated financial management software system for small and medium-size units of government performs general accounting, budgetary accounting, grant/project accounting, and accounts payable. Files supporting each of those functions are shared and updated immediately when transactions are entered.

GIMS accommodates a broad range of management functions. The system's modular structure allows the user to tailor the system for the specific management purposes. Functional modules integrated with GIMS include payroll/personnel, utility billing, fixed assets, purchasing, job cost, budget preparation, accounts receivable, and inventory control.

Price: \$3000 – \$28,000

Contact: Victor Goldberg
(212) 872-7732

PEAT, MARWICK, MITCHELL & CO.
345 Park Avenue
New York, NY 10154

GOV-11 (Governmental Management System)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Accounting • Payroll • Taxes
• Word processing

Distribution media: 9-track 800 bpi magnetic tape, RK07, RL01, RL02.

FCI Personnel System

Operating System: RSTS

Keywords: • Payroll • Personnel

Memory required: 32KW.

This system fully automates files and documents maintained by a personnel department in a city government. Written in BASIC-PLUS-2 and running under RSTS/E V8.0, the system allows for the entry of standard departmental payroll data on an individual employee basis. The information stored contains detailed year-to-date tracking of sick leave, overtime, and workmen's compensation, with department summaries.

The software can provide effective, immediate on-line retrieval of all updated employee wage profiles. A complete history of wage and salary records is maintained with information available on future wage increases. The programs are menu driven, with defined screen handling and corresponding hard-copy options.

Administrative functions for internal control include a cemetery maintenance file to record the burial responsibilities handled through the city and an equal employment opportunity base to enhance internal employee relations.

Other FCI city government software modules include Police, Fire, and Building and Zoning.

Price: \$10,000 - \$30,000

Contact: Shelia A. McPartland
(305) 652-1710

FLORIDA COMPUTER, INC.
99 N.W. 183rd Street, Suite 126
N. Miami, FL 33169

FCI Police System

Operating System: RSTS

Keywords: • File management • Law

Memory required: 32KW.

This module, designed to automate the manual-based system of files and documents maintained by a police department in a city government, is written in BASIC-PLUS-2 and runs under RSTS/E Version 8.0. The system features a strong C.A.D. file manager, B.A.N. recordkeeper, and Field Information Card base and provides effective, immediate on-line data retrieval. The programs are menu driven with defined screen handling and corresponding hard-copy options.

The first-line design capabilities of the programs feature storage and print routines. The storage options allow records to be added, changed, displayed, and deleted. The print options allow the tracking of those records with selection range parameters.

The system features building permit and zoning application maintenance, code enforcement handling, and occupational and license generation and print.

Other FCI city government software modules include Police, Fire, and Personnel.

Price: \$10,000 – \$30,000

Contact: Shelia A. McPartland

(305) 652-1710

FLORIDA COMPUTER, INC.

99 N.W. 183rd Street, Suite 126

North Miami, FL 33169

FCI Fire System

Operating System: RSTS

Keywords: • Information management

Memory required: 32KW.

This system fully automates the files and documents maintained by a fire department in a city government. Written in BASIC-PLUS-2 and running under RSTS/E V8.0, the system features a strong C.A.D. file manager, B.A.N. recordkeeper, and community activity notice base. The software can provide effective, immediate on-line retrieval of vital data. The programs are menu driven, with defined screen handling and corresponding hard-copy options.

Detailed tracking of all Florida fire incident information for required state reporting is provided, along with an emergency medical services record file. Administrative functions for internal control include departmental inventory, uniform inventory, employee training schedule and shift schedule management, and personnel facilities.

Other FCI city government software modules include Police, Personnel, and Building and Zoning.

Price: \$10,000 – \$30,000

Contact: Shelia A. McPartland

(305) 652-1710

FLORIDA COMPUTER, INC.

99 N.W. 183rd Street, Suite 126

N. Miami, FL 33169

Dog License System

Operating System: CTS-300, RSTS, RT-11

Keywords: • Data collection • Information management

This computerized on-line real-time dog license billing system provides for updating and adding information and for inquiry into existing information. The menu-driven system provides ease of operation, editing and verification of transactions, automatic assignment of account numbers, and automatic verification of tag numbers issued to eliminate duplication.

Additions, changes, and deletions can be made on line. Fees for tag payments, transfers, and duplications can be edited at any time. Adjustments to tag payment amounts and penalty amounts can be made. Tagged dogs that have died can be automatically deleted from the file at the end of the year, thereby preventing tags from being switched to other dogs. Price differences between kennel dogs and personal ownership are handled automatically. Transfer of dog ownership can be made without reentering all the information for the dog. Tag inquiries can be made by both tag number and account number. Dog breeds are referenced by a 3-digit code, eliminating the need to enter the full name.

The Daily Transaction Report shows tag entries made for the day, with a recap showing the number of each type of entry and the income for the day. Other available reports include an alphabetical listing, alphabetical listing by zip code, delinquent alphabetical listing, delinquent alphabetical listing by zip code, breed list, tag listing, unused tag number listing, inactive owners listing, printing of dog license bills, and yearly recap.

Price: \$4000 - \$6000

Contact: James W. Sanderbeck, Vice President
(216) 489-1885

PM COMPUTER SERVICES CO.
630 - 30th Street, N.W.
Canton, OH 44709

FCI Building and Zoning System

Operating System: RSTS

Keywords: • Construction • Property management

Memory required: 32KW.

This module automates the manual-based system of files and documents maintained by a building and zoning department in a city government. Written in BASIC-PLUS-2 and menu driven with defined screen handling, the system runs under RSTS/E Version 8.0 and provides automated methods by which building and zoning information can be stored and retrieved for interactive data processing.

Campaign Finance Program

Operating System: CTS-300, RT-11

Keywords: • Financial planning • Mailing lists

This program supplies candidate and political action committee reporting for federal (FEC) and state requirements. Also provided are itemized receipts, disbursements, contributor lists (A/N), vendor lists (A/N), mailing labels, and contributions by state, city, election, occupation, and ZIP code. The program complies with FEC regulations.

Price: \$3000 - \$5000

Contact: Thomas F. Karlsen

(602) 231-9273

KARLSEN & CHRISTENSEN, CPS'S, P.C.

1436 North 44th Street

Phoenix, AZ 85008

CCS Municipality System

Operating System: RSTS

Keywords: • Accounts payable • Automotive • Billing
• Payroll

This program supports utility billing, payroll, credit union, vehicle licensing, and accounts payable applications.

A version of this product is available for the VAX computer.

Price: \$15,000 - \$75,000

Contact: Stuart M. Katz, President

(312) 480-9880

COMMERCIAL COMPUTER SERVICES, INC.

3000 Dundee Road, Suite 402

Northbrook, IL 60062

Dispatchers Aid

Operating System: CTS-300, RT-11

Keywords: • Property management • Telecommunications

This computer-aided dispatch information retrieval system for fire departments provides responsive incident address validation, apparatus assignments, and prefire planning information while maintaining status of apparatus and incidents.

Price: \$30,000

Contact: Abraham Brecher

(201) 663-1011

DIGITIZE, INC.

158 Edison Road

Lake Hopatcong, NJ 07849

Government



Cameroun

AMERICAN MEDICAL ASSOCIATION
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If you play Pong on your TV, you will like playing VTPONG. You put the index and middle fingers of one hand sideways on the keyboard to move your paddle up and down; your opponent does the same. Moving both fingers one key closer to keyboard center jumps the paddle four steps instead of one. There are beeps, too: one for bounce, two for serve, and three for miss. Block digit scoring, right or left "wall," and selectable paddle size and ball speed are also featured. DECUS number 11-327.

Restrictions: VTPONG requires RSX-11M system with "Unsolicited input CHAR.AST" and "Read with no echo" support.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

468 Games and Demos

Price: \$199.95

Contact: David Spencer

—
INFINITY SOFTWARE CORP.
6951 Warner Avenue, Suite 256
Huntington Beach, CA 92647

VTAG

Operating System: CTS-300, RT-11

Keywords: • Recreation

An exciting and challenging game for use with the VT100 video terminal with Advanced Video Option, VTAG does not require complex strategies and planning. VTAG is a game of escape and attack, changes dynamically right before your eyes, and is guaranteed to amaze and entertain.

The object of VTAG is to acquire as high a score as possible. As each phase of the game starts, the VT100 screen is refreshed, revealing the floor plan layout of an old mansion. In the center of the mansion is a dungeon. The dungeon conceals four monsters, which chase the player. The player's movement is governed by the four cursor keys on the VT100 keyboard. The player who is caught is eaten by the capturing monster. The player may be caught only three times before the game is over.

Points are acquired by "picking up" stones that are strewn on the floor of the mansion corridors. If the player picks up one of four magical stones in the mansion, the monsters turn into wimps that race to the safety of the dungeon. Extra bonus points are accumulated by capturing a wimp before any other wimp reaches the dungeon. Another bonus is collected by picking up all the stones.

Price: \$50

Contact: Peter McWha, General Manager
(613) 820-1517

LOGICAID LTD.
97 Craig Henry Drive
Nepean, Ontario K2G 3S8
Canada

VTPONG: RSX-11M Task to Play Pong, Using VT52 or VT55 Terminal

Operating System: RSX

Keywords: • Recreation

Memory required: 11,100 bytes.

STAR.TREK (SPACWR)**Operating System:** RSX**Keywords:** • Recreation

Memory required: 8K w/FCRES.

This program for RSX-11M is based on the television series "Star Trek." DECUS number 11-293.

Price: \$5 - \$225**Contact:** DECUS (see Introduction)**TREK: A Space Game for RSTS/E****Operating System:** RSTS**Keywords:** • Recreation

Memory required: 16KW.

TREK, a development from SPACWR, uses the direct cursor addressing features of the VT52 and VT100 terminals and the Advanced Video Option of the VT100 terminal. TREK is a game of cunning and skill. You must destroy all the enemy's war fleet before they destroy you. The screen displays updates in real time. DECUS number 11-633.

Note: The game will run on any terminal but works best on a VT100 with the Advanced Video Option.

Price: \$5 - \$225**Contact:** DECUS (see Introduction)**VT100 Games for RSTS/E****Operating System:** RSTS**Keywords:** • Recreation

This package contains six games. Those with an asterisk (*) can be played by multiple persons on separate terminals.

- BLKADE*: Up to eight human or robot players attempt to fence in the other players.
- INVADE: Repel wave after wave of invading alien creatures. Shoot them with your laser blast while dodging their deadly bombs.
- PACKER: You are a packer in a robot manufacturing plant. Your mission is to collect the radioactive dust on the floor before the robots kill you. Grab an energy suit and kill them for extra points.
- STRWRS: You pilot a lone fighter against Imperial fighters and the Death Star.
- SUBS*: Use your submarine to sink your opponent with torpedos.
- WIGGIT: You have entered the underground lair of killer Martian Wiggits. Collect the water crystals that form before the Wiggits find them and clone.

Each game has a separate user guide that includes operating and installation instructions.

Adventure features complex puzzles in distant climes. The original versions were written by Scott Adams for the TRS-80; the translations to BASIC-11 are by Bob Supnik. DECUS number 11-421.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Space Invasion

Operating System: RT-11

Keywords: • Recreation

Memory required: 14KW.

This real-time interactive game provides both sound effects and witty comments on your abilities as the defender. This version comes with a score card file against which you match your skills. Fine tuning of speed parameters is possible. Space Invasion will consume hours! This game has been put up on RSX and RSTS as well, but details are not available in this file. DECUS number 11-510.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Space War for Cursor-Addressing CRTs

Operating System: RT-11

Keywords: • Recreation

Memory required: 4K.

Space War is a 2-person real-time space craft war game for VT52/100 (cursor-addressing) CRTs. Each player controls a ship with the keys on the left and right side of a standard keyboard. A set of games is played, and scores are printed at the end. Variables include number of torpedoes to fire, speed of the game, and CRT type. With minor modifications, this program will work on any cursor-addressing terminal. DECUS number 11-464.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Star-Trek (SPACWR)

Operating System: RT-11

Keywords: • Recreation

Memory required: 12K.

This program is adapted from the TV program "Star-Trek." DECUS number 11-174.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Price: \$100 - \$200

Contact: Kenneth Alan Presley, President
(502) 448-2719

COMPUTER INGENUITY CONSULTING ASSOCIATES,
INC.

4513 Flintlock Drive
Louisville, KY 40216

Seven BASIC Games

Operating System: IAS, RSTS, RSX, RT-11

Keywords: • Recreation

Memory required: 32KW.

Quest is a maze-mapping game patterned after Adventure. Quest's small size and straightforward structure make it easy to understand and modify. Quest was written by Roger Chaffee and appeared in the July 1979 issue of *BYTE Magazine*. This version is identical to the published version, except for minor modifications entailed by BASIC-11.

Othello is a board game for two players. The object of the game is to occupy terrain on the board and to capture your opponent's counters. You can play against the computer, or the computer can play against itself. If you have a VT52/VT100, the program maintains a copy of the board and the score on the screen. Otherwise, the program prints a copy of the board and the score between moves.

Trek, a variant of SPCWAR (or STRTRK), uses the cursor features of the VT52 and VT100 to produce better displays. This version of Trek is based on previous versions, starting with a base level written by Aron Insinga. The modifications for the VT52/VT100 were made by Jim Thompson. The master game was added by Bob Supnik.

Life, for the VT52 or VT100 or equivalent terminal, is a version of John Conway's "Game of Life." This version is written in standard BASIC-11 and is based on Clark Baker's original program in "101 BASIC Computer Games." The modifications for the VT52/VT100 were made by Bob Supnik.

Wumpus is the original maze-mapping, monster-fighting game. As such, it is the predecessor of Quest, Adventure, and similar games. This version was written by Mark Rosenthal. Compared to the versions published in *Creative Computer*, this version offers more hazards and totally randomized maze setups, so no two games are the same.

Adventureland and Pirates Adventure are two adventure games from Scott Adams's "Adventure Land" series. The two games use a common interpreter, operating on game-specific data bases. Adventureland is a treasure hunt in meadow, swamp, and cave. Pirates

This collection of ASCII picture files obtained from DIGITAL, M.I.T., and other sources can be printed on any line printer for reproduction. Any machine that can handle ASCII code may be used. The files should be both machine- and operating system-independent within that restriction.

To obtain the proper aspect ratio, the line printer should operate at 10 characters/horizontal inch and at 8 lines/vertical inch. If an LA120, LA34, or LA38 terminal is used to print the pictures, any of those printers may also be set at 16.5 characters/horizontal inch and at 12 lines/vertical inch for a smaller picture. DECUS number 11-422.

A version of this product is available for the VAX computer.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

QUICKCHESS (Speed Chess Simulator)

Operating System: RSTS

Keywords: • Recreation • Simulation

QUICKCHESS is a speed (timed) chess simulator program that allows two players to sit at different VT100 terminals and play speed chess. The board is drawn on each player's screen in double-width/double-height characters, with each player's pieces at the bottom of the screen. The board squares are separated by graphic vertical and horizontal lines, and alternating squares are in reverse video for the light/dark diagonal perspective. Each player's remaining game time in minutes:seconds is shown in the corners of the screen and is visually updated each second. The names of both players and their last moves are also shown in each corner.

Move input is through standard international algebraic notation. All moves are checked for legality, with any illegal move requiring reinput by the player. Upon input of a legal move, the boards are updated through direct cursor addressing; the player's clock is stopped; an audible alarm sounds; and the player's opponent's clock is started. Play continues in that manner until one of the players runs out of time or loses the game in a normal manner.

All legal chess moves are allowed and are logged in a game log file (a different log file name is used for each run so all games may be saved) along with the player's remaining time after each move.

A version of this product is available for the VAX computer.

MM: A Mastermind Game**Operating System:** RSX**Keywords:** • Recreation

Memory required: 24KW.

MM is designed purely for pleasure and enjoyment. The file MM.DOC contains some useful information on playing MM. Good luck! DECUS number 11-681.

Price: \$5 - \$225**Contact:** DECUS (see Introduction)**OSCAR: Conversational Computer****Operating System:** RT-11**Keywords:** • Recreation

Memory required: 11K.

OSCAR, a program that converses reasonably intelligently with the user by way of teletype, answers questions or makes a relevant comment in approximately 95% of cases. OSCAR will not tackle arithmetic but usually types an appropriate comment about the problem. The overall conversation level is quite coherent but is sometimes slightly illogical. That result is achieved by examining the input material and dividing it into categories on the basis of the first few words. OSCAR is thus a "brute force" example of programming. OSCAR is good party entertainment, but people's reactions also make an interesting psychological study. DECUS number 11-258.

Price: \$5 - \$225**Contact:** DECUS (see Introduction)**Othello****Operating System:** RT-11**Keywords:** • Recreation

Othello, sometimes known as REVERSI, is a board game similar to GO or GO-MOKU. The rules are simple and easy to learn, but to become a master takes a little longer. The computer uses a 2- or 3-ply search in opposing you and is difficult to beat. You can play black or white and give or take a handicap at the start. DECUS number 11-542.

Price: \$5 - \$225**Contact:** DECUS (see Introduction)**Pic-Pak: Computer Picture Collection****Operating System:** Independent**Keywords:** • Graphics • Printing

Hockey Game

Operating System: RSTS, RSX

Keywords: • Recreation

Memory required: 8K.

This player-versus-computer hockey game closely simulates the real thing. The game includes faceoffs, deflected pucks, kick saves, pucks tied up against boards, and so on. Games are close and exciting. DECUS number 11-107.

Note: Requires modification for use with RT-11 BASIC.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Hornet: A Star-Trek Game

Operating System: RSX

Keywords: • Recreation

Memory required: Approximately 24K bytes.

Like many of the Star-Trek versions in use, Hornet is written in Pascal and should serve as a moderately good example of structured programming. Many areas can be improved, and the program can be modified or rewritten at will. Run the program, and it will ask you if you want help. DECUS number 11-443.

Restrictions: VT52-compatible terminal should be run at 9600 baud.

Note: The compiled program will run on RSX-11M; source is in VAX native Pascal and Swedish Pascal. This program is also distributed as DECUS number VAX-11.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Master Mind for MINC BASIC or RT-11 BASIC

Operating System: RT-11

Keywords: • Recreation

This BASIC program allows the user to play Master Mind against the computer. The program contains a low-level code-searching algorithm to break the user's code. Information is displayed using the graphics cursor-positioning commands of the VT55 terminal. DECUS number 11-535.

Restrictions: The Extra-Space command must be used for MINC BASIC to use all available memory for the program.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Games, Puzzles, and Recreation-2

Operating System: RSTS

Keywords: • Education • Recreation

This package contains 49 recreational programs, some of which are unique in concept, educational, and good fun. Some of the programs take advantage of the advanced features of BASIC-PLUS and are quite elegant in structure as well as being challenging and entertaining to run. Programs range from the games of Yahtzee and Monopoly to a smog simulation and a pizza delivery game. DECUS number 11-24.

Note: Documentation available from DIGITAL (Order number EB-04873-76).

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Genral: The Great War Game for up to Four Players

Operating System: RSX, RT-11

Keywords: • Recreation

Memory required: 30KW.

Time: The Nineteenth Century

Place: The Frontier Between Anchovy and Baklava

Anchovy has assembled a large army to invade Baklava, a neighboring state. The aim of the invasion is to capture a majority of the Baklavan towns or to destroy the opposing army. Baklava hopes to resist long enough to force an armistice, to counterattack and capture Anchovian towns, or to drive out and destroy the invaders.

Genral is a game of resource management. Cavalry, infantry, and artillery units contend for control of roads, rivers, hills, towns, bridges, and forests. Strategic decisions must be made in real time, aided by statistical reports and animated video displays of 49 sectors. A 14-page instruction manual and an extensive set of detailed maps are provided on the tape. DECUS number 11-500 (RSX); 11-466 (RT-11).

A version of this product is available for the VAX computer.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

European MINC Package #8 — Games

Operating System: RT-11

Keywords: • Recreation

The following is a brief description of the programs:

- CHESS — Mk1.1 representing graphically the chess board on a VT105
- RACE — A game of driving cars around our elliptical track (HP-9872A or HP-7225A)

DECUS number 11-579.

Price: \$5 — \$225

Contact: DECUS (see Introduction)

FLIP: A Computer Program for Fuzzy Reasoning

Operating System: RT-11

Keywords: • Calculation aids • Mathematics • Statistics

Memory required: 42K.

This interactive program for use at a screen terminal implements the procedure proposed in "A Formal System for Fuzzy Reasoning" (*Fuzzy Sets and Systems*). The problem is to decide what conclusions may be drawn in the presence of possibly conflicting evidence. Conclusions are drawn with associated partial degrees of belief, by several sources of differing reliability. Each piece of evidence is entered as a sentence (using the terms NOT, AND, OR, and IMPLIES as necessary), with an associated "degree of belief" and "weight," followed by a tentative conclusion. The program provides the degree of belief and weight that rationally may be attached to the conclusion.

The program is written in FORTRAN (868 lines, compatible with FORTRAN IV and FORTRAN V). FLIP has been used on the PDP-11/03, RT-11 version. The program is described in "A Computer Program for Fuzzy Reasoning" (submitted to *Fuzzy Sets and Systems*). DECUS number 11-409.

Price: \$5 — \$225

Contact: DECUS (see Introduction).

Games, Puzzles, and Recreation-1

Operating System: RSTS

Keywords: • Education • Mathematics • Recreation

This package contains 55 recreational programs, many of which have substantial educational value, especially for learning about principles of mathematics, probability, and logic. Programs range from a comprehensive Space War simulation to a nursery stories quiz. DECUS number 11-18.

Note: Documentation available from DIGITAL (Order number EB-04873-76).

Dungeon

Operating System: RSTS, RSX, RT-11

Keywords: • Recreation

Memory required: 28K user space (RSTS/RT) or 32KW user space (RSX).

Dungeon is a game of adventure, danger, and low cunning. In it you will explore some of the most amazing territory ever seen by mortals. Hardened adventurers have run screaming from the terrors contained within.

In Dungeon, the intrepid explorer delves into the forgotten secrets of a lost labyrinth deep in the bowels of the earth, searching for vast treasures long hidden from prying eyes, treasures guarded by fearsome monsters and diabolical traps. DECUS number 11-370.

Restrictions: This version of Dungeon cannot be compiled or used as is. This version can be used on diskette systems only. (See DECUS number 11-370B.) File DTEXT.DAT is a binary, fixed-length data file and must be transferred using special precautions; see documentation for each operating system in file DUNGEON.DOC.

Note: All sources are available with this version.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Dungeon for RT-11

Operating System: RT-11

Keywords: • Recreation

Memory required: 28K partition.

Dungeon is a game of adventure, danger, and low cunning. You will explore some of the most amazing territory ever seen by mortals. Hardened adventurers have run screaming from the terrors contained within.

In Dungeon, the intrepid explorer delves into the forgotten secrets of a lost labyrinth deep in the bowels of the earth, searching for vast treasures long hidden from prying eyes, treasures guarded by fearsome monsters and diabolical traps. DECUS number 11-370B.

Note: The sources are not available for this version of Dungeon. Release notes are available in hard copy only.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

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For brevity, the program prints a 31-day chart, regardless of the length of the month. DECUS number 11-235.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Demonstrator

Operating System: RSTS

Keywords: • Computer-aided instruction • Presentation aids
• Simulation

This automated software demonstration and training utility allows the user to create screen-oriented presentations that intermix CRT displays recorded in a controlled session with text added where desired. In its simplest use, Demonstrator can easily act as a flip chart on a screen, complete with bolding, reverse video, flashing, and line drawing. In a more complex use, the user records a terminal session, then inserts explanatory text and/or screen controls. The resultant file is "played back" by Demonstrator software, simulating the terminal session. The user may choose to insert pause commands, which wait either for a carriage return or for a prescribed time interval. That allows for automatic walkthroughs, as in a trade show environment, or a professional, controlled demonstration. Demonstrator also includes menuing and autorepeat capabilities.

Price: \$1250

Contact: Gary Vowels

(206) 285-3260

MANUS SERVICES CORP.

1700 Westlake Avenue North

Seattle, WA 98109

Digital Clock

Operating System: RSX

Keywords: • Presentation aids

This program simulates a digital clock on a VT52 or VT52-compatible CRT. The program has two modes of operation: hours, minutes, seconds, day, month, and year are continuously displayed in large characters; hours and minutes are continuously displayed in larger characters.

This program does direct cursor addressing and updates only the positions that have changed since the last update. The program also connects to unsolicited input by clearing the screen and exiting upon striking the control C or X character. When the RETURN key is pressed, the program toggles from one mode to another. DECUS number 11-399.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

CHSMOV — Chess-Move Recorder on a VT55 or a VT105, Under MACRO-11**Operating System:** RT-11**Keywords:** • Recreation

Memory required: 32K.

CHSMOV records the moves of two players on a VT55 or a VT105 graphics terminal. A checkerboard is drawn on the screen; pieces are labeled by a 2-character code identifying the color and type of piece. The players enter the move to be made in algebraic notation (for example, E2-E4). The program checks to see if the proper characters have been typed and whether the pieces at the location specified are there or not. Illegal entries cause the terminal buzzer to sound and the move to be retyped. Players may castle on either side by typing K[RETURN] for king-side castling and Q[RETURN] for queen-side castling. The elapsed time taken by each player is calculated and displayed at the bottom right of the screen after every move. DECUS number 11-532.

Note: This program does not check for legality of moves and does not play chess against the operator. Capturing en passant and pawn promotion are not allowed.

Price: \$5 - \$225**Contact:** DECUS (see Introduction)**CHSSLV (Chess-Problem Solver)****Operating System:** RT-11**Keywords:** • Recreation

This program solves chess problems. White checkmates black in two or three moves. Castling and en passant are forbidden moves. DECUS number 11-162.

Price: \$5 - \$225**Contact:** DECUS (see Introduction)**Cycles****Operating System:** RT-11**Keywords:** • Presentation aids

Memory required: 16K.

This adaptation from DECUS number RSTS-11-76 has been rewritten for RT-11 and MU BASIC. Cycles formats a biorhythm chart for printing on either a user terminal or a line printer. Output may be directed to any legal RT-11 device. The output requires a wide-carriage printer, such as the LA36, or a terminal.

The biorhythms are calculated by methods that assume birth and current dates to be between January 1, 1901, and December 31, 1999.

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Note: This version corrects a logic error, which makes the calendar from 1984 on correct, and reflects changes in OMSI Pascal from Versions 1.2 to 2.0. Program CAL.PAS is written in OMSI Pascal Version 1.2. For other versions, only changes in I/O statements should be needed.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Chess Ingenuity®

Operating System: RSTS, RSX

Keywords: • Computer-aided instruction • Recreation

Memory required: 32KW. Distribution medium: RX50.

This system for playing and teaching chess on the MICRO-11 and PRO-300 series has many easy-to-use features that make it ideal for amateurs and useful to stronger players as well. Chess Ingenuity is written in BASIC-PLUS-2; thus, both the MICRO-11 and PRO-300-Series versions have identical operator interface and features. The system includes arrow-key and algebraic-move modes, save and restore games, "chess movies" (game replays), on-screen commands and help, supplied Grand Master games, move evaluation scores, two board styles, default difficulty levels (1 to 9), game score log files, a list or display of all legal moves, an edit mode (position setup), a game time clock, a visible chess-tree search, and a look-ahead parameter adjustment.

Price: \$49.95

Contact: Kenneth Presley

(502) 448-2719

COMPUTER INGENUITY CONSULTING ASSOCIATES,
INC.

4513 Flintlock Drive
Louisville, KY 40216

Choose

Operating System: RT-11

Keywords: • Recreation

Memory required: 32K or more.

This questionnaire enables the player to appraise his or her knowledge of Christianity and the Word of God. The player answers yes or no to the questions; the computer then agrees or disagrees. Depending on the player's answer, the computer refers the player to the appropriate references for each question. After answering the last question, the player is asked to make a choice about his or her eternal welfare. DECUS number 11-373.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Price: \$5 - \$225

Contact: DECUS (see Introduction)

BIGCAL: A Calendar Scheduling Program

Operating System: RSX, RT-11

Keywords: • Presentation aids • Scheduling

Memory required: 17KW.

This FORTRAN IV program can be compiled under either RT-11 or RSX-11M. After prompting the user, BIGCAL generates a calendar for the months or year specified. The calendar has boxes around each day, making it easy to jot down notes and appointments. BIGCAL includes a day-of-week algorithm, used to determine the day of week based on month, day, and year between 1752 and 2099. The size of the calendar is variable from 40 to 132 columns as well as 40 to 132 rows for each output page. Output from BIGCAL is sent to the file BIGCAL.OUT on the user's device. DECUS number 11-623.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Blackjack for the MINC

Operating System: RT-11

Keywords: • Recreation

Memory required: 6300 maximum words.

Blackjack plays Las Vegas blackjack with every major facet except splitting. The computer is the House (dealer) and plays against one to four players, using as many as three decks. The display is organized, the program runs smoothly, and it is fun testing your ability and luck at the casino. Practice against the MINC, and you will soon be ready for Vegas, Atlantic City, and Monte Carlo. DECUS number 11-563.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Calendar Printing

Operating System: RSX

Keywords: • Presentation aids

This program prints a calendar for any year between 1583 and 32,766. When the program is run, the user is prompted for the year for which a calendar is desired. The program writes the calendar to a file year.CAL and closes that file. The prompt is repeated for additional years until the user replies with a 0; the program then exits. The year files may then be listed. DECUS number 11-477.

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Each game has a separate UIC, complete with source, object, and task files; a README.1ST file to explain procedures for building the game; and a .DOC file containing playing instructions for that game. DECUS number 11-SP-35.

Restrictions: The package runs on VAX only in RSX compatibility mode. Playing instructions are included in .DOC files.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

BASIC Demonstration Package

Operating System: RSTS, RSX, RT-11

Keywords: • Presentation aids • Recreation

This package contains a group of demonstration tapes, using the PDP-11 BASIC assembler. A knowledge of the games involved is assumed. The demos are Football, Rocket, Weekday, Craps, Civil War, and Snoopy. DECUS number 11-10.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Battle Ships

Operating System: RSX

Keywords: • Recreation

Memory required: 27K words.

In this simulation of the popular game Battle Ships, player and computer position their ships in their respective game squares. In the game, the computer and the player alternate shots until one has sunk all the adversary's fleet, thus winning the game.

Each time this program is run, the computer chooses the positions for its own ships randomly and beyond the control of the player. Each square has a horizontal address from A to P and a vertical address from 1 to 6.

You can play with none or one aircraft carrier, up to two cruisers, up to three destroyers, and up to five submarines. The ships may be positioned horizontally or vertically.

The object file was produced by the Swedish Pascal Compiler V5.0/V4.0. To create the "TSK" file, the FORTRAN subroutine "RANDU" and function "SECNDS" must be included from the FORTRAN IV library.

Execution of the program under RSX-11M is initiated by the RUN BATSHP command. Once running, the program is self-explanatory and includes an introduction to the game.

The Pascal source file contains a commentary about the structure of the program. DECUS number 11-440.

Note: The program has improved user interface and documentation. Adventure has been successfully run on an LSI-11/03 and an LSI-11/23. RT-11 V3/FORTRAN IV V2 gave one warning when compiling AMAINOR for possible modification of the DO loop parameter "HINT." Ignoring that message caused no problems.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Airplane Landing Simulation Game

Operating System: RT-11

Keywords: • Aeronautics/aerospace • Presentation aids
• Recreation • Simulation

Memory required: 16K words.

This game provides a pseudographic display of an aircraft instrument panel, with real-time updates at 1-second intervals. The program simulates an instrument landing approach from an altitude of 2500 feet to the runway, with instructions from the ground radar controller. Aircraft climbs, dives, and stalls are properly simulated. An off-airport landing, with a snide remark as reward, as well as a go-around for a missed approach, are both possible. DECUS number 11-388.

Restrictions: For RT-11, use FB monitor, SET TT NOCR LF before starting.

A PLANE.SAV file is supplied for use on RSTS/E or RT-11. If you use EIS, FIS, or FPP hardware, you must recompile and relink. Uncommented sources are supplied. To recompile, you must have a FORTRAN subroutine library (SYSF4.LIB) on the system.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Arcade Game Package

Operating System: RSX

Keywords: • Recreation

Memory required: 16KW.

This package contains four games based on the arcade games PACMAN, MISSILE COMMAND, CENTIPEDE, and BREAKOUT. These games are written for PDP-11s running RSX but will run on VAXs in compatibility mode. The games require a VT100 video terminal operating at 9600 baud. Players control the motion of activity on the screen by using the VT100 keypad keys to simulate a joystick. The games increase in difficulty as one's score increases.

3-Dimension Tic-Tac-Toe

Operating System: RSX

Keywords: • Recreation

Memory required: 51,200 bytes (FORTRAN IV); 52,100 bytes (FORTRAN IV PLUS).

This program plays 3-dimensional (4 x 4 x 4) tic-tac-toe on a VT52 or VT52-compatible CRT. The game does direct cursor addressing for both computer and opponent moves. Instructions are displayed on the CRT. DECUS number 11-400.

Note: Object and .TSK files are supplied for both FORTRAN IV and FORTRAN IV PLUS.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

3D-Tic-Tac

Operating System: RSTS, RSX, RT-11

Keywords: • Presentation aids • Recreation

This demonstration program compares a computer's pattern recognition with that of a human. The program is a tic-tac-toe game played on a 4 x 4 x 4 board. The game rules are contained in the program. DECUS number 11-72.

Restrictions: TTY interrupt disabled.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Adventure

Operating System: IAS, RSTS, RSX, RT-11

Keywords: • Recreation

Memory required: 28KW user space.

Adventure, a magical, unpredictable, and often addictive computer game, is a treasure hunt with all the trimmings — mysteries and challenges that grow more and more complex as the game unravels. Adventure is more a puzzle than a game. Once solved, it is mastered. The mastering, however, often takes months of drawing maps and planning strategy.

Adventure's popularity lies in its power to enchant. Players are projected into a world of fantasy, one that blends the heart-pounding suspense of Treasure Island with the magic of Alice in Wonderland. DECUS number 11-340.

Games and Demos



Black Star Publishing Company/Kostil Ruohomaa

Journal of Management Education

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The Journal of Management Education is a peer-reviewed journal that publishes research, theory, and practice in the field of management education. The journal is published quarterly by Sage Publications. The journal's content is organized into four sections: Research, Theory, Practice, and Reviews. The Research section publishes empirical studies that contribute to the understanding of management education. The Theory section publishes theoretical articles that explore the underlying principles of management education. The Practice section publishes articles that describe innovative teaching methods and classroom practices. The Reviews section publishes critical evaluations of books and articles in the field. The Journal of Management Education is a leading journal in the field of management education and is read by scholars, practitioners, and students alike.

The Journal of Management Education is a peer-reviewed journal that publishes research, theory, and practice in the field of management education. The journal is published quarterly by Sage Publications. The journal's content is organized into four sections: Research, Theory, Practice, and Reviews. The Research section publishes empirical studies that contribute to the understanding of management education. The Theory section publishes theoretical articles that explore the underlying principles of management education. The Practice section publishes articles that describe innovative teaching methods and classroom practices. The Reviews section publishes critical evaluations of books and articles in the field. The Journal of Management Education is a leading journal in the field of management education and is read by scholars, practitioners, and students alike.

Editor: David A. Garvin
 Editor: David A. Garvin
 Editor: David A. Garvin

Editor: David A. Garvin
 Editor: David A. Garvin
 Editor: David A. Garvin

XSP Spreadsheet, Financial, and Statistical Analysis System

Operating System: UNIX* (Version 7)

Keywords: • Financial analysis • Forms management
• Spreadsheets

The XSP spreadsheet is integrated to the XED office systems package through the XED menu processor. The package handles 500 fields of information in either columnar or free-form modes. XSP allows unlimited text to be inserted between fields or lines of the analysis, permitting direct integration of finished reports with word processing documents. The spreadsheet also permits multiple forms based on previous data and automatically updates fields from previous forms.

The finished document may be directly accessed by either the XED word processor or the XDA document assembler for further editing or document merging. The completed document may be printed on draft- or letter-quality printers.

XED office systems programs are designed and coded for UNIX* Version 7, System III, System V, and Berkeley 4.1 and 4.2. The programs contain a terminal description file and a printer definition and proportional spacing increment table (both user definable) to provide maximum installation flexibility and efficiency in a multi-user environment. XED is loaded in the UNIX* multitasking operating system as a shared text file.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Ted Ferguson
(818) 884-2000

COMPUTER METHODS, LTD.
P.O. Box 3938
Chatsworth, CA 91313

Price: \$33,500 – \$66,000

Contact: Gregory Keyes
(609) 799-8076

TECHNICA, INC.
P.O. Box 2392
Princeton, NJ 08540

Unicalq 3-D Spreadsheet

Operating System: UNIX* (System V)

Keywords: • Decision support • Financial analysis

This powerful 3-dimensional, virtual memory electronic spreadsheet offers very large spreadsheet size yet is optimized for efficient time-sharing use through dynamic memory allocation based on spreadsheet contents. Special features include file encryption for security, on-line help for commands and syntax, and extended numeric, financial, logical, arithmetic, conditional, and operational functions.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$750 – \$2500

Contact: Uniq Sales Department
(312) 879-1008

UNIQ DIGITAL TECHNOLOGIES
28 S. Water Street
Batavia, IL 60510

ViewComp Electronic Spreadsheet

Operating System: ULTRIX-11, UNIX* (System III, System V, Version 7)

Keywords: • Decision support • Financial analysis
• Spreadsheets

ViewComp, an electronic spreadsheet designed specifically for the UNIX* environment, offers all the capabilities expected of an electronic spreadsheet. In addition, the data it stores and uses is completely UNIX*-compatible.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$500 – \$800

Contact: Mark Pearson
(415) 824-9300

UNICORP SOFTWARE, INC.
226 Sanchez
San Francisco, CA 94114

- Is compatible with programs that format text and data in prescribed fields
- Allows worksheets 999 columns by 999 rows
- Enables the user to redefine the terminal keys and to define new terminal types by editing the terminal definition file

DIGITAL distributes this software product under license from Access Technology, Inc.

Supercomp-Twenty™ is a trademark of Access Technology, Inc.

Refer to SPD #A3.75.00 when requesting further information on this product from your local DIGITAL sales office.

Price: \$895

Contact: Consult your local DIGITAL sales office (see Introduction).

Tax Planner

Operating System: CTS-300, RSX, RT-11

Keywords: • Financial analysis • Financial planning
• Forecasting • Taxes

The Tax Planner may be used to project income taxes for 1983, 1984, and 1985, based on the applicable tax law in effect on July 1, 1982. In addition to the selection of the most favorable income tax method, the system calculates Form 4972 — special 10-year averaging method, self-employment tax, minimum taxes, and alternative minimum tax. Tax Planner automatically calculates taxable capital gains or losses, charitable contributions and medical expense limitations, marriage tax penalty deduction, nonrefundable credit, and penalty for underpayment of estimated tax.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Bob Sprowls
(904) 434-2685

DIGITAL SYSTEMS, A DIV. OF UCCEL
114 E. Gregory Street
Pensacola, FL 32501

TECHSCORE

Operating System: Independent

Keywords: • Banking • Credit • Retail

This credit-scoring system uses advanced optimization techniques, provides a scoring formula that is tailored to your credit goals and easily adjusted to reflect changes in your credit policy, and offers full control over the characteristics of your scoring formulas and the results they achieve.

A version of this product is available for the VAX computer.

Stockmaster™

Operating System: UNIX* (System V)

Keywords: • Information management • Investments
• Mailing lists • Spreadsheets

This multiple-portfolio management system for investors, stockbrokers, institutional traders, and investment clubs provides a sophisticated yet easy-to-use handling of transaction processing, portfolio pricing (Warner or Dow Jones), record keeping, and money management. The system contains an appointment tickler, mailing list manager, and interest and dividend spreadsheet and maintains and processes critical client information. Current portfolio and realized capital gains are available both on screen and as printed reports. This complete investment tool for investment professionals contains an optional money manager's module that tracks cash in and out of any account and all transactions through an audit trail.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$995

Contact: Matthew B. Brosious
(212) 221-3016

COMPUTER MASTERS INTERNATIONAL CORP.
39 West 38th Street
New York, NY 10018

Supercomp-Twenty,™ Version 1.25 (35)

Operating System: Micro/RXS, RSX

Keywords: • Spreadsheets

Distribution medium: RX50.

This portable electronic spreadsheet program for Micro/RXS and RSX-11M-PLUS combines the ease of use common to microcomputer packages with the modeling power of mainframe financial-planning packages. Extensive documentation, on-line help, and user-friendly screen orientation enable the novice to build realistic business plans in a few hours.

Supercomp-Twenty:

- Contains flexible file handling, command files, custom report generation, and a large model space, allowing the system to handle corporatewide tasks, such as budget consolidation, inventory scheduling, and investment planning
- Draws data from many sources, including general ledgers and most data base packages, permitting a portable modeling activity shared among several machines
- Reads files from or creates files for any program using data in a tabular format

air freight. DROIPB calculates the discounted return on investment. GKASSF computes normal price of a warrant. GK COST performs price/earnings ratio calculations. GVOTE simulates committee votes. CPATH, GCPM1, and GCPATH perform critical path analysis. SLSMN is a sales management program. INSTR.UCS gives the instructions data file for SLSMN. LABOR simulates labor and management bargaining. LABSET creates a data file for LABOR. LABOR.DOC is a description of the LABOR program. MARKOW computes efficient securities portfolios. GNPSUM produces figures for GNP, consumption, investment, and government spending from a model in which consumption is a function of income in the previous period. WHEELS simulates the finances of owning and operating a car over 12 months.

Section H contains data processing programs. STOPB simulates a simple digital computer with a defined machine language. BRAIN simulates a simple digital computer with a more complex defined machine language. ADDRES prints addresses on labels. SORT performs an ascending or descending sort on a simple ASCII file. XREF is a BASIC program listing and cross-reference generator. DECUS number 11-159.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Safe Deposit System

Operating System: ULTRIX-11, XENIX

Keywords: • Banking • Financial planning

This system helps financial institution management and personnel evaluate and use the organization's assets more efficiently. The Safe Deposit System, written in RM COBOL, provides alternatives to the traditional numerical access to information, making the system easier to use and learn. Other features include a box-availability report, an activity history file, payment-due notices, and daily and monthly revenue reports. A user's guide and documentation are included.

A version of this product is available for the VAX computer.

Price: \$1250

Contact: Bob Ginn

(901) 767-3759

INDUSTRY SOFTWARE SALES, INC.

P.O. Box 240804

Memphis, TN 38124

KOCH offers a variety of sophisticated and thorough securities-trading packages designed for the corporate portfolio manager. Banks, insurance companies, pension plans, trusts, and corporations that manage their own portfolios and those of their clients will find these packages well suited to their environment. Each package will interface easily with existing general ledger, tax reporting (Form 1099), and client billing systems. All packages run on most computer systems, support black-and-white or color terminals and printers, include extensive ad hoc report-writing facilities, and are designed and written in proven and fully supported state-of-the-art software technology.

Bond Trading is an on-line package that supports coupon and discount securities; government, corporate, and municipal bonds; management for an unlimited number of portfolios; yields, discounts, durations, accretions, amortizations, 360/365 basis comparisons; and countless other calculations and projections. The package handles coupon notification, service fee billing, 1099, and G/L postings. Full back-office accounting functions as well as support for traders' decision making are included.

The Futures and Hedges package provides complete accounting and valuation for futures and cash and futures hedges.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Brad Marcus

(415) 567-0400

KOCH SYSTEMS CORP.

P.O. Box 2510

San Francisco, CA 94126

Project Delta, Sections G and H: Business and Data Processing

Operating System: RSTS

Keywords: • Accounting • Cost accounting • Distribution
• Sales and marketing

Memory required: Mostly under 8K.

Section G contains business programs. GSSS, a small system simulator, allows an item to be created, moved through a defined system, and then destroyed. CSHFLO performs up to four cash flow analyses for given cost of capital and computes the rate of return and payback period. GNMVB/GMRGB analyzes securities. GSTKVL performs stock valuation. GTHOR calculates securities EPS growth. TRCK1 calculates breakpoint weights for trucking freight. LEASIN calculates lease income. LOAN performs loan amortization. GIRRPV performs investment return (cash flow) analysis. GRISKA analyzes the risk of capital investment. IATA1 calculates breakpoint weights for

This system manages the performance of established accounts, provides management directives, and improves profitability. Performance Manager is developed from an analysis of your accounts receivable master file data tapes. That data is analyzed to identify the behavior patterns of accounts that are most predictive of delinquency and writeoff.

This integrated credit management decision system, organized in simple tabular format, provides clear-cut guidelines for setting credit lines dynamically as information becomes available regarding an account's charging and paying behavior, determining authorization limits, and managing delinquent accounts, including collection prioritization.

A version of this product is available for the VAX computer.

Price: \$50,000 – \$70,000

Contact: Gregory Keyes
(609) 799-8076

TECHNICA, INC.

P.O. Box 2392

Princeton, NJ 08540

POM/T (Purchase Order Management/Tendering System)

Operating System: RSTS

Keywords: • Inventory • Order entry

This financial and administrative package is designed for colleges, universities, school boards, municipalities, and paragonmental agencies. POM/T features purchase order creation, stock and non-stock purchase orders, receiving, stock file maintenance, tendering, and automatic accruals.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$30,000 (Canadian)

Contact: Dennis J. Sakamoto
(416) 433-2100

S.R.B. INTERNATIONAL LTD.

Whitby Corporate Centre,

209 Dundas Street E., Suite 205

Whitby L1N 7H8

Canada

Portfolio Management/THESIS™

Operating System: RSX

Keywords: • Banking • Financial analysis

• Financial planning • Information management

Official Checks System

Operating System: RT-11, TSX-PLUS

Keywords: • Banking • Report writer

This complete record-keeping system includes facilities for issuing checks (with daily trial balance report); paying checks (with daily trial balance report); managing check inventory (in vault and at tellers); generating reports on individual checks, paid checks, unpaid checks, and all checks and monthly reports; managing dormant checks (advertising and escheating of dormant checks according to Texas law); handling indemnity-bound checks; and providing full inquiry into the data base and supervisory access to the data base.

Price: \$1000 - \$2500

Contact: Leland T. (Tom) Smith, President
(512) 692-0953

DATA PROCESSING SERVICES, INC.
8746 Wurzbach Road, Suite 203
San Antonio, TX 78240

PAX

Operating System: CTS-300, RT-11

Keywords: • Banking • Financial planning • Investments
• Taxes

This comprehensive system for the administration of defined contribution pension and profit-sharing plans, including 401 (k) and ESOPs, can accommodate trustee or participant-directed investment options with complete subaccounting for up to 99 choices. A consolidated allocation report can be produced with individual participant statements. This fully integrated system has built-in audit trails and query facilities.

A version of this product is available for the VAX computer.

Price: \$6000 - \$12,000

Contact: Susan M. Peterman
(202) 363-5300

STANLEY E. CLARKE AND ASSOCIATES, INC.
4801 Massachusetts Avenue, N.W.
Washington, DC 20016

Performance Manager

Operating System: Independent

Keywords: • Banking • Credit • Decision support • Retail

Multiplan® is a registered trademark of Microsoft, Inc. * UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$495 - \$2000

Contact: Marketing Department
(408) 425-7222

THE SANTA CRUZ OPERATION, INC.
500 Chestnut Street
Santa Cruz, CA 95060

NYPLAN

Operating System: RSTS, RSX, RT-11

Keywords: • Financial analysis • Graphics • Report writer
• Spreadsheets

This electronic spreadsheet and financial planning system combines the convenient interaction of a screen-oriented calc package with the power of financial modeling. Ranging from comprehensive reporting to graphics analysis, NYPLAN provides financial statements, budgets, sales forecasts, pro forma financial statements, consolidated reports, and manpower charts.

NYPLAN supports both a hard-copy terminal mode and a special screen mode on most popular terminals. With the screen mode, any model can be entered and instantaneously displayed. The user can create the model in screen or hard-copy mode and alternate between models.

Graphs can be produced on video displays, printers, and plotters. Line charts and bar charts are available and can be produced in either two or three dimensions.

NYPLAN also includes a data base interface for receiving data from other files, a report writer, and an on-line user's manual. The statistics package contains linear regression and risk analysis, and the financial package includes internal rate of return, present value, discounted cash flow, and depreciation. NYPLAN uses standard math rules, including exponentiation and parentheses. Models can be made to prompt for necessary information, and a job stream can be made, instructing NYPLAN to perform a series of events.

A version of this product is available for the VAX computer.

Price: \$9500 - \$15,500

Contact: John Enyedy
(408) 257-7700

NATIONAL INFORMATION SYSTEMS
20370 Town Center Lane
Cupertino, CA 95014

Micro Modeler is a powerful, flexible, yet easy-to-use business planning, control, and reporting tool. Micro Modeler's economical price-to-power ratio can provide the basis for all corporate, financial, and information systems used in the day-to-day planning and monitoring of business performance.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Christina O'Brien

(01) 740 5758

INTELLIGENCE (UK) PLC

Network House, Wood Lane

London W12

England

Money Orders System

Operating System: RT-11, TSX-PLUS

Keywords: • Banking • Report writer • Sales and marketing

This complete record-keeping system is similar to our Official Checks System except that it is used for tracking money orders rather than official checks. The system has facilities for selling money orders; money order inventory management (in vault and at tellers); generation of reports on individual money orders, money orders by batches, and voided money orders; and full inquiry into the data base.

Price: \$1000 - \$2500

Contact: Leland T. (Tom) Smith, President

(512) 692-0953

DATA PROCESSING SERVICES, INC.

8746 Wurzbach Road, Suite 203

San Antonio, TX 78240

Multiplan® Electronic Worksheet

Operating System: ULTRIX-11, UNIX* (Version 7), XENIX

Keywords: • Decision support • Financial planning
• Sales and marketing • Spreadsheets

This highly visual, easy-to-use, interactive electronic worksheet aids in financial planning and modeling for business or personal needs. The worksheet can be used to predict future financial needs and profitability by answering the user's what-if questions. Multiplan can also be used to perform iteration and sensitivity analysis to indicate a step-by-step approach to a targeting result. Multiplan is menu driven, uses natural-language commands, and has a thorough help facility. Maximum worksheet size is 63 columns by 255 rows. By using the UNIX* TERMCAP capability, Multiplan supports most cursor-addressable terminals. The worksheet is backed by SCO's comprehensive software warranty product support services.

A version of this product is available for the VAX computer.

Price: \$12,000 – \$25,000

Contact: Kevin Walsh

(415) 856-1100

ROSS SYSTEMS, INC.

1860 Embarcadero Road

Palo Alto, CA 94303

MATHEASY

Operating System: RSX

Keywords: • Banking • Credit • Retail

MATHEASY processes applications for credit and new accounts and can be used by banks, retailers, or any other credit grantor that processes loan or credit card applications. The system takes each application from data entry through the decision process and generates the appropriate letters, reports, and actions.

The system can be used with or without an existing credit scoring formula. Credit bureau reports are automatically received by the system through a dedicated phone line or an automatic-dialer modem. MATHEASY can use your scoring formula to automatically analyze those reports.

Approved accounts can be "handed off" to your existing accounts receivable system in a user-specified record layout. Additionally, tapes can be generated for driving a credit card embossing machine.

The user can monitor and track applications through each step of the process, altering or modifying the flow when necessary. Applications can be assigned special priorities when rapid expedition is required.

MATHTECH will customize the software, if necessary, to perform, for example, debt burden or cash flow analysis.

A version of this product is available for the VAX computer.

Price: \$65,000 – \$110,000

Contact: Steven Mutschler, Director, Credit Systems

(609) 799-2600

MATHTECH, INC.

P.O. Box 2393

Princeton, NJ 08540

Micro Modeler

Operating System: RSTS

Keywords: • Financial analysis • Financial planning

438 Financial Management

LPS was developed for use with the Informix™ data base management system. Many types of loans are supported. The report writer includes advanced features and allows the system to be modified easily.

The system is very fast. A loan application with all supporting documentation can be calculated and printed in less than 30 minutes. A loan closing can be prepared and printed in less than 10 minutes. All pipeline and closed loan information is available for reporting at any time.

* UNIX is a trademark of AT&T Bell Laboratories. Informix™ is a trademark of Relational Database Systems, Inc.

A version of this product is available for the VAX computer.

Price: \$5000 - \$24,000

Contact: Dan A. Lundy
(405) 324-6324

WALLUN DATA PROCESSING
211F South 4th Street
Yukon, OK 73099

MAGIC*CALC

Operating System: RSX, RT-11

Keywords: • Financial analysis • Financial planning
• Forecasting • Spreadsheets

Minimum memory required: 64K. Distribution medium: RX01.

This electronic spreadsheet is written in Assembler and is available in RT-11 and RSX-11M versions.

Price: \$500

Contact: Al Levenberg
(212) 497-4004
DATA MAGIC
1345 Halsey Street
Brooklyn, NY 11237

MAPS/MODEL

Operating System: RSTS

Keywords: • Decision support • Financial analysis
• Financial planning • Spreadsheets

MAPS/MODEL combines the flexibility of electronic spreadsheets and the power of advanced modeling languages. MAPS/MODEL is ideal for problems involving multidimensional consolidations, iteration, or sensitivity analysis. Models are easily constructed for applications such as budgeting, cash flow management, and forecasting. MAPS/GRAPH, integrated with MAPS/MODEL, allows you to use your financial planning data for presentation-quality color graphics.

INTFIN (Internal Financing Package)

Operating System: RSTS

Keywords: • Accounts receivable • Billing

INTFIN was developed to handle invoices or bills between companies, subsidiaries, or profit centers belonging to one organization. The idea is to reduce the amount of money required to finance operations and thereby to reduce interest expense.

An account is established for each subsidiary, and INTFIN debits and credits the accounts from the information on the invoices.

Price: Available upon request

Contact: David M. Carson, President

(816) 931-1896

SOFTFIN

P.O. Box 3354

Kansas City, KS 66103

INTRST.PKG

Operating System: RSTS

Keywords: • Banking • Calculation aids • Decision support

This package helps banks, credit unions, and savings and loans calculate interest rates. INTRST.PKG, written in Pascal, calculates cost of funds and interest rates on both commercial and amortized notes. The program is designed to protect against usury law suits involving interest rates and to aid in setting loan rates.

A version of this product is available for the VAX computer.

Price: \$400

Contact: David M. Carson

(816) 931-7610

SOFTFIN

P.O. Box 3354

Kansas City, KS 66103

LPS (Loan Processing System)

Operating System: UNIX* (Version 7), XENIX

Keywords: • Banking • Credit

This complete, stand-alone system for loan processing serves mortgage bankers and savings and loan associations. The system includes mortgage loan application entry, processing, and tracking. Interface with credit bureau offices is supported, and certain loan-servicing interfaces are available. Loan closing reports, document preparation, and historical reporting of loan applications are parts of the system.

InterFad™

Operating System: DSM

Keywords: • Financial analysis • Query facilities
• Report writer • Taxes

This complete on-line interactive depreciation and fixed-asset system may be interfaced with the InterGL General Ledger and Financial Reporting System or used in a stand-alone environment. InterFad can handle any of eight depreciation methods and includes the ACRS laws. The system's options include expensing or not depreciating an asset, defining fiscal periods, and depreciating an asset on any time period (monthly, quarterly, annually, and so on). The system can simultaneously keep track of two sets of records for each asset — one for IRS tax purposes and the other for book purposes.

Assets can be grouped or kept separate. You define asset locations and general ledger and expense accounts. When an asset is depreciated, the accounts are updated automatically, and a complete history report is produced on the desired assets, breaking down the depreciation for a given period of time and showing both IRS and book depreciation.

The system handles investment tax credit and recapture functions. Your investment tax credit is automatically calculated. If you sell an asset, the recapture amount is produced on a report, which is available at any time. Also available is an on-line inquiry function enabling you to check the status and book value of any asset and to show the amount of past depreciation, as well as information about the asset, including salvage value, date purchased, purchase price, investment tax credit amount, useful life, location, method, and G/L and expense account numbers.

Upon request, you can produce reports available in different forms. The reports include an asset-acquisition report, a depreciation report by location, an investment tax credit and recapture report, and a report showing any changes made on an asset. The ability to project future amounts of depreciation allows you to see how much your assets would depreciate each year by using any of the eight methods of computing depreciation and for any useful life and purchase value.

A version of this product is available for the VAX computer.

Price: \$2500

Contact: Alexander J. Phillips, President
(201) 256-7633

INTERACTIVE SYSTEMS AND MANAGEMENT CORP.
1500 Cardinal Drive
Little Falls, NJ 07424

GENESYS

Operating System: Independent

Keywords: • Banking • Credit • Retail

GENESYS is designed to provide the benefits of modern credit evaluation methods to credit grantors who cannot develop an empirically based system. If you have very few accounts, are entering a new market, or have little or no available data on past applicants or account performance, then GENESYS provides an individually tailored powerful hybrid of judgmental and empirical systems at a reasonable cost.

A version of this product is available for the VAX computer.

Price: \$17,500 – \$29,500

Contact: Gregory Keyes
(609) 799-8076

TECHNICA, INC.

P.O. Box 2392

Princeton, NJ 08540

GENSIM-IMPRS Financial Simulator

Operating System: RSTS, RSX, RT-11

Keywords: • Calculation aids • Financial analysis
• Report writer • Simulation

This general simulation package uses the relational data base, provides hierarchical independence and freedom in establishing the model, and provides total interactive model calculation and maintenance. GENSIM features a full set of amortization and depreciation commands, flexible graphics display and multiple plot commands, growth and factor commands, year-to-date and period-to-date commands, flexible model-initiation commands, flexible model updating, a discounted-rate-of-return command, and correlation of historical data and forecasting with the use of resulting regression equations. Reporting features include multiple report and format capability, unlimited report comments, multiple cross-totals and reporting, flexible report heading and descriptions, and report outlining capability.

Price: \$3500

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544

RUF CORP.

1533 E. Spruce

Olathe, KS 66061

434 Financial Management

user ability to suppress any/all financial statement reports; automatic interface to other major systems (A/P, P/R, and so on); and instant access to detail or accounts.

The system also incorporates a variety of income statements, suppresses zero dollar amounts, underlines total amounts, reestablishes new-year balance on demand, automatically adjusts previous-month changes to year-to-date totals, allows unlimited chart of accounts and alphanumeric account numbers, distributes single G/L accounts to multiple financial lines, and accommodates company division/department breakdowns.

A version of this product is available for the VAX computer.

Price: \$3000

Contact: Elvin E. Smith or Forrest E. Weddle

(913) 782-8544

RUF CORP.

1533 E. Spruce

Olathe, KS 66061

Forced Closed Accounts

Operating System: RT-11, TSX-PLUS

Keywords: • Banking • Credit • General ledger

This system helps banks and financial institutions recoup funds from bad customer accounts by faster and more complete reporting with greater efficiency. The system offers prompted data entry with ability to divide losses from one customer account among six general ledger accounts; full inquiry/change into the data base; standard data base maintenance: creation and resequencing (with resort alphabetically by account holder); and report generation — detailed and abbreviated listings of forced closed accounts sorted by item number or alphabetically, time period reporting, data base health test reports, losses by general ledger account number, ranged reports based on amount lost (sorted descending), selective reports based on who the closing was reported to (retail credit, collection agency), and aged report of losses by GL account number.

The Forced Closed Accounts system can help to recover forced closed losses efficiently.

Price: \$1000 — \$2500

Contact: Leland T. (Tom) Smith, President

(512) 692-0953

DATA PROCESSING SERVICES, INC.

8746 Wurzbach Road, Suite 203

San Antonio, TX 78240

Price: \$995 – \$9800

Contact: Jim Hotze

(713) 664-1172

FINAR SYSTEMS LTD.

6101 Southwest Freeway, Suite 406

Houston, TX 77057

FINPRO (Financial Projection Model)

Operating System: RSX

Keywords: • Financial analysis • Financial planning
• Simulation

FINPRO predicts balance sheet and profit-and-loss data for up to 12 planning periods into the future. A period can be a week, a month, a quarter, or some other length of time. For example, the model can be used to project the following profit- and loss-related numbers: gross profit, net profit, operating expenses, administrative expenses, and interest expense and income. The following balance sheet items can be projected: cash balances, borrowing requirements, accounts receivable, and accounts payable.

The model can project profits, cash flow, and cash requirements data necessary for loans; project sales, inventory, and labor requirements for meeting a goal of, for example, a 20% increase in profits over last year; and project sales required for breakeven, 10% gross profit, and 30% gross profit, respectively. FINPRO can also evaluate the impact of different pricing strategies on profitability; and evaluate the impact on cash requirements of reducing the average age of accounts receivable.

A version of this product is available for the VAX computer.

Price: \$1000

Contact: Stephen Hoiberg

(617) 275-5810

BREUER & CO.

54 Middlesex Turnpike

Bedford, MA 01730

FINSYS-IMPRS Financial System

Operating System: RSTS, RSX, RT-11

Keywords: • Financial analysis • General ledger
• Report writer

This menu-driven, password-protected system accommodates monthly, quarterly, and other reporting periods and features user-defined and controlled financial reporting; input documents for data entry; account maintenance designed into the menus; detail entries available on a year-to-date basis, extensive validation of account numbers, hash totals, and "limit tests"; immediate input validation;

432 Financial Management

Price: \$25,000 – \$82,000

Contact: Susan Donovan
(603) 898-1800

EVALUATION AND PLANNING SYSTEMS

One Industrial Drive
Windham, NH 03087

Final

Operating System: RSTS, RSX, RT-11

Keywords: • Data entry • Decision support
• Financial analysis • Simulation

This multidimensional financial analysis and modeling system features intermatrix arithmetic for easy consolidation; interactive data entry and viewing for different perspectives on your data; multiple dimensions to give real modeling ability; data definition to shape your model to your needs; an unlimited data base size for large and detailed models; an editor to develop and save your logic and arithmetic; menus that you write; the ability to be used on 8-bit micro, 16-bit micro, mini, and mainframe computers; separate printing and report formatting facilities; and the ability to transfer data and logic from external systems.

A version of this product is available for the VAX computer.

Price: £3500 – £8400

Contact: G. Norman
734-342666

D. M. ENGLAND & PARTNERS LTD.

Tudor House, 24 High Street
Twyford, Berkshire RG10 DAG
England

FINAR (Financial Analysis and Reporting System)

Operating System: RSTS, RSX

Keywords: • Financial analysis • Financial planning
• Simulation • Spreadsheets

This financial modeling system for business professionals performs financial analysis and planning. FINAR is as simple to use as an electronic spreadsheet yet contains many advanced features. FINAR automates budgets that maintain detail at cost center level, then consolidates the detail to several levels for reporting and analysis. FINAR includes the standard financial functions, such as discounted cash flow, net present value, the full range of depreciation routines, internal rate of return, and so on. Data may be accessed from an existing data base or another model. FINAR includes an on-line tutor that includes 10 learning sessions. Telephone support is available.

A version of this product is available for the VAX computer.

Price: \$3500

Contact: Steven L. Buth
(509) 624-4248

SPOKANE COMPUTER SERVICES, INC.
West 915 Second Avenue
Spokane, WA 99204

FASTRAN

Operating System: RSX

Keywords: • Accounts payable • Banking
• Telecommunications

FASTRAN automates funds transfer and wire-room processing for financial institutions. The system includes interfaces to FEDWIRE, BANKWIRE, CHIPS, SWIFT, Telex, and TWX. The functions are communications, message routing, test wording, risk control, payment processing, and advice generation.

A version of this product is available for the VAX computer.

Price: \$50,000 - \$100,000

Contact: Richard C. Thurber, Vice President, Finance Systems
(212) 943-4575

LOGICA INC.
20 Exchange Place
New York, NY 10005

FCS-EPS

Operating System: RSTS, RSX

Keywords: • Data base management • Decision support
• Financial analysis

FCS-EPS, a sophisticated yet easy-to-use, integrated decision support system, is often used to model financial scenarios. The command-driven system uses REPORT, CALCULATE, and GRAPH instructions. The modules perform report generation, what-if analysis, hierarchical consolidation, multidimensional consolidation, risk analysis, statistical analysis, high-resolution graphics, screen manipulation of data, and data base management. More than 160 financial functions required for budgeting and forecasting applications are offered. FCS-EPS runs under a variety of hardware and operating systems ranging from large mainframe computers to recently introduced microcomputers.

A version of this product is available for the VAX computer.

430 Financial Management

This professional-strength, virtual memory electronic spreadsheet for financial/mathematical analysis is designed exclusively for DIGITAL computers. DIGICALC combines the strengths of traditional financial modeling packages with the flexibility of the popular microcomputer CALC programs. Its more than 8000 users include accountants, managers, engineers, executives, and scientists. Features include variable column widths and up to 616 columns by 616 rows and 999 consolidations, with no limitations on the use of constants, text, or equations. DIGICALC allows for up to 112 characters a cell position and boardroom-quality report generation. Annual support provides newsletter subscription, telephone problem response, new-feature updates, and new-product discounts.

A version of this product is available for the VAX computer.

Price: \$275 - \$6000

Contact: Wayne Yarnall

(206) 881-2331

WHY SYSTEMS, INC.

16902 Redmond Way

Redmond, WA 98052

FACS — Patronage Accounting

Operating System: RSTS

Keywords: • General ledger • Purchasing • Report writer
• Taxes

Designed to be used by either tax-exempt or nonexempt cooperatives, this package can be combined with FACS Inventory and the other FACS accounting modules to provide a complete financial management system. The system features direct interface with the FACS G/L; patronage allocations, including tax credit allocations, based on the quantity or dollar value of sales; allocation to departments on an individual department basis, allowing separate multiplier factors (percentage of basis to pay); user-defined minimum check calculation; purchase credits; federal tax withholding and reporting; and up to 26 stock classifications and up to 255 individual departments.

Reporting features include sales reports and summaries by department, customer type, general ledger account, and so on; general ledger posting summaries; user-defined patron name/address report and a patron's ledger; user-defined prior-year retainage and stock reporting; allocation and dividend registers; and form 1099s. All reports can be printed to the screen or to a hard-copy device.

A version of this product is available for the VAX computer.

DataCalc features help text throughout, individual column widths, batch processor, floating decimal, commas every three digits, file protection, weighted average, 12-digit accuracy, sort, 80/132 column display, 3-dimensional display, blank on zero, loan payment, cell protection, continuous labels, table lookup, and more.

Integrated with A-to-Z, DataCalc is a decision maker's most important tool.

A version of this product is available for the VAX computer.

Price: \$495 – \$1795

Contact: Jon L. Vanderwood

(801) 487-0531

DATATREND

395 Ironwood Drive

Salt Lake City, UT 84115

Decision Tree

Operating System: Independent

Keywords: • Banking • Credit • Decision support • Retail

Decision Tree is an entirely new way of evaluating applicants for credit. This system creates a set of criteria, embracing both qualitative and quantitative attributes of applicants for credit, that determines the applicants who are likely to become "good" accounts and those who are likely to become "bad" accounts.

In a typical engagement, Technica's analytical staff selects a sample of applicants from the client's data base, prepares the data, produces the Decision Tree analysis, defines portfolio performance tradeoffs available to the client, consults with the client's data processing staff about implementation of the system, and trains the client's operating staff in the use of the system. The result is a system that increases new-account approvals, reduces bad debts, and improves efficiency.

A version of this product is available for the VAX computer.

Price: \$33,500 – \$66,000

Contact: Gregory Keyes

(609) 799-8076

TECHNICA, INC.

P.O. Box 2392

Princeton, NJ 08540

DIGICALC™

Operating System: RSTS, RSX

Keywords: • Accounting • Financial analysis • Mathematics
• Spreadsheets

Distribution media: 800/1600 bpi magnetic tape, RX50 on the Professional 350.

Data*Model performs consolidated budgeting, variance analysis, profit and cash planning, investment analysis, manpower planning, asset/liability management, liquidity analysis, currency conversion, and many other planning and analysis applications. Data*Model is ideal for any tedious, time-consuming task that would otherwise be done by hand with spreadsheets.

Data*Model's computerized spreadsheets may contain up to 30,000 rows and 500 columns. Built-in routines include amortization, depreciation, IROR, NPV, loss carryforward, and goal seeking. Complete if/then logic allows users to build decisions into their models. Unlimited numbers and levels of consolidation may be performed. Model-development time and storage requirements are minimized because spreadsheets, data, logic, and report formats can be shared by many models.

A built-in file interface routine allows Data*Model to interface with other systems, such as word processing, graphics, and accounting systems, without custom programming.

A version of this product is available for the VAX computer.

Price: \$995 - \$3000

Contact: Tom Hanks

(206) 282-9777

COMPUTER MODELING, INC.

P.O. Box 19595

Seattle, WA 98109

DataCalc

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Decision support • Forecasting • Simulation
• Spreadsheets

Distribution media: RL02, RX01, RX02, RX50, magnetic tape.

This system for managers, financial analysts, executives, budget officers, and accountants turns DIGITAL business computers into the personal tool needed by business professionals. Your VT100, VT220, VT52, or compatible terminal becomes a window through which you view a portion of your spreadsheet and manipulate numbers. DataCalc lets you play what-ifs. If, for example, you hired a new employee, what would be the effect on productivity, sales, payroll, balance sheet, and net income?

With calculation and storage routines written in VAX native-mode assembly, DataCalc is one of the fastest electronic spreadsheets available. Since DataCalc is transportable, spreadsheets designed in the field office can be sent to the home office to be analyzed, revised, or consolidated.

Available functions include add, change, and delete maintenance; inquiry of investment master files; and current status of investments and securities at specified financial institutions. Available are an investment report by investment number or by bank, investment detail by date or by maturity date, interest detail by fund or by date, and a securities report by bank.

Price: \$2000 - \$4000

Contact: James W. Sanderbeck, Vice President

(216) 489-1885

PM COMPUTER SERVICES CO.

630 - 30th Street, N.W.

Canton, OH 44709

CUSYS (Credit Union System)

Operating System: RSTS

Keywords: • Banking • Credit • General ledger

CUSYS is an in-house credit union system for the complete management and automation of the credit union operation. CUSYS allows users to conduct real-time processing, with instantaneous updating and retrieval of information at every level of activity and service of a modern credit union.

The CUSYS programs provide highly efficient processing in all areas of credit union operations: member servicing, back-office processing, cash reconciliation and audit, and management controls. Some specific features of the system include share and loan processing, certificates of deposit, money market and retirement accounts, share drafts, variable-rate loans, integrated general ledger, generalized report generator, and ATM support.

Various configurations are available for the PDP-11/23 to the PDP-11/70 to accommodate membership from 3000 and up.

Price: \$35,000 - \$90,000

Contact: R. David Fuchs

(212) 685-1880

GENERAL SYSTEMS CORP.

100 Park Avenue

New York, NY 10017

Data*Model Spreadsheet Management System

Operating System: RSTS, RSX, RT-11

Keywords: • Decision support • Financial analysis
• Simulation • Spreadsheets

Management can easily change the scheduling criteria. Reports provide the collection rate of individual letters and collector efficiency. Support for a color graphics terminal reveals useful statistical trends. Full accounting and legal processing are included.

The program features unlimited debtor history available in three keystrokes. Accounts are presented to the collector by management criteria. Letters and calls in response to previous debtor activity versus batch processing can be accommodated. Debtors can be matched and linked, thus providing an on-line paperless data base environment. New business can be entered from tape or keyboard. The menu-driven design is very easy to use and learn. Use of the program can triple employee efficiency and yield a 25% increase in collection rate.

Price: \$20,000 – \$50,000

Contact: Jodd Readick

(212) 595-8800

INTL COMPUTER COLLECTIONS, INC.

Box 443 Ansonia Station

New York, NY 10023

Commercial Loan System

Operating System: ULTRIX-11, XENIX

Keywords: • Banking • Financial analysis

This system makes data processing a tool for the user and good business for your customers. The Commercial Loan System is written in RM COBOL with alternate keys to enable the user to find loans from just the customer's name. The system tracks past-due loans by loan officer. Other features include payment history file, customer loan reconciliation, monthly revenue reporting, daily transaction listing, and payment-due notices.

A version of this product is available for the VAX computer.

Price: \$1250

Contact: Bob Ginn

(901) 767-3759

INDUSTRY SOFTWARE SALES, INC.

P.O. Box 240804

Memphis, TN 38124

County Treasurer's Investment Management

Operating System: CTS-300, RSTS, RT-11

Keywords: • Banking • Financial analysis • Investments

This on-line real-time system provides complete automation of investment securities. Major advantages to this system include current investment information that maximizes investment income and the ability to easily monitor the security activities at each bank.

individual, zip code, or total membership; pledge reminders; instant donor account inquiry with printout; label printing in alpha or zip order; donor list with name and address in alpha or zip order; and daily/weekly posting of contributions.

CATS provides membership services, such as a biographic file that tracks member birth dates, family data, blood type, committee status, music interest, sports interest, leadership interests, and activities involvement; label sorting and printing using membership data; sorting and printing of customized reports detailing membership data; sorting and interfacing with word processing for personalized mailings; and printing of membership rosters. In addition, the program offers general accounting that will record income and expense disbursements and receipts; record monthly and year-to-date data; generate a balance sheet, a profit/loss statement, and an actual general ledger; generate accounts payable with automatic check writing; prepare accounts receivable with invoice and statement production; and provide payroll with automatic check writing and W-2 forms production.

A version of this product is available for the VAX computer.

Price: \$1500 - \$20,000

Contact: William R. Paschal, Jr.

(405) 843-7323

DATATEK CORP.

818 N.W. 63rd

Oklahoma City, OK 73116

Collection-Plus

Operating System: RSTS

Keywords: • Banking • Credit

Collection-Plus, designed to increase profitability by optimizing the operations of a collection department, can be used by any organization with more than four collection employees. Prime beneficiaries include medical, financial, government, and utilities organizations.

Each collector has a workstation where accounts are presented in order of importance to management. A scheduling program determines those priorities on a daily basis from a list of 64 debtor attributes, including balance, days outstanding, days since last payment or contract, presence or absence of assets, missed or met promises, and so on. The collector is not involved in that scheduling and merely requests the next account on the list. Up to 16 dunning letters (in four languages) can be automatically sent by the scheduler in presort zip code order.

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year warranty that includes telephone support on a toll-free number and software updates at a media charge only are included with the purchase price. Source code is also available.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$750 – \$2500

Contact: Chuck Reed

(317) 872-7200

COMPUTER SYSTEMS CORP.

5540 Rock Hampton Court

Indianapolis, IN 46268

CALC (VT100 Accounting Calculator), Version II

Operating System: RSTS, RSX

Keywords: • Accounting • Calculation aids • Mathematics

Distribution medium: magnetic tape.

This multifunctioned accounting calculator is designed to operate on the VT1xx-Series terminals. CALC, featuring on-line help, provides the basic functions of a desk-top calculator, including hard-copy printout and accessible memory registers. The system has additional functions allowing the CRT to operate as if it were four calculators (strips). Those strips can be compared for validation of long sequences of entries.

Demonstration tapes and user manuals can be purchased to preview the functioning of the product. A user installation/instruction guide is included.

A version of this product is available for the VAX computer.

Price: \$350

Contact: Neal J. Anderson, Senior Product Specialist

(414) 784-8250

MCHUGH, FREEMAN AND ASSOCIATES, INC.

1135 Legion Drive, P.O. Box 454

Elm Grove, WI 53122

CATS (Contribution/Accounting Tracking System)

Operating System: RSTS

Keywords: • Accounting • Financial planning

• Word processing

This specialized program for nonprofit organizations provides complete accounting functions that not only aid administration by producing management reports but also increase income contributions through the unique interaction of accounting and word processing. The program's contribution tracking provides donor statements by

C-CALC is a menu-driven multidimensional forecasting, planning, data analysis, and modeling package with an interactive help facility and an on-line training procedure. Menus and single-level English-like editor commands aid the inexperienced user. The advanced C-CALC user can use the optional shortcuts to bypass menus and prompts.

C-CALC contains a data importing/exporting facility and worksheet-consolidation feature to use in computer networks and workstations. Entire worksheets or raw data can easily be transferred between computer systems. In addition, worksheet data is transportable between C-CALC and most other applications programs: graphics, word processing systems, general ledger, and so forth.

In addition to the standard spreadsheet features, C-CALC offers a 736 x 600 matrix worksheet area, generates boardroom-quality reports by means of stored print menus, sorts alphabetically or numerically, accesses data on other worksheets, consolidates like or unlike worksheets or portions of worksheets, identifies labels and titles, automates repetitive operations through user-defined procedures, conditionally formats, and offers if-then-else abilities and built-in mathematical, statistical, financial, and logical functions.

Expanded user-defined procedures allow C-CALC to become a programming language. Training, data entry routines, and program interfaces can easily be tailored to a multiuser environment.

A version of this product is available for the VAX computer.

Price: \$595 - \$3750

Contact: Gerald Solomon

(206) 822-2252

DSD CORP.

10420 N.E. 37th Circle, Suite A

Kirkland, WA 98033

CALC-11/CALC-11 PLUS

Operating System: IAS, RSTS, RSX, RT-11, TSX-PLUS, ULTRIX-11, UNIX* (System III, System V)

Keywords: • Decision support • Financial analysis

• Financial planning • Spreadsheets

This 3-dimensional electronic spreadsheet uses English commands. The maximum spreadsheet size is 32,767 rows by 32,767 columns, and an unlimited number of spreadsheets can be consolidated. File encryption, individual size column widths, 132-character display, and ASCII file interfacing are just a few of the features that make this system so versatile. The spreadsheet may be transferred and used across all the operating systems and hardware configurations. A 1-

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Price: \$9000 +

Contact: Janna McMillan
(617) 275-5810
BREUER & CO.
54 Middlesex Turnpike
Bedford, MA 01730

Business Modeler

Operating System: RSTS, RSX, RT-11

Keywords: • Accounting • Calculation aids • Office systems
• Spreadsheets

Memory required: 32K.

This electronic spreadsheet program runs on all PDP-11, VAX, and Professional-Series computers and is written in MACRO.

Business Modeler uses a worksheet format of up to 255 x 255 cells. The screen can be set to either 80 or 132 columns wide and acts as a window on the worksheet, allowing an area 16 rows deep and up to 62 columns wide. The screen can be split into as many as four sections. On-line help is available. Several built-in functions are available, such as MAXIMUM/MINIMUM/AVERAGE of a list, SUM/COUNT of items in a list, LOOK-UP/CHOOSE from a table, LOGIC expressions, and TRIGONOMETRIC expressions. You can add to those functions with user-installable functions, such as compound interest, performance ratios, or other complex mathematical formulas.

Values can be stored in either single or double precision and displayed in various formats, such as accounting format or European numeric format. Worksheets can be stored in the computer, consolidated, be password protected, and stored in formats suitable for later editing or word processing.

Graphics is also available in the package at no additional cost.

A version of this product is available for the VAX computer.

Price: \$650 - \$2500

Contact: Kevin Vroman
(212) 608-5310
LOGSYS (USA) INC.
116 John Street, Suite 1408
New York, NY 10038

C-CALC

Operating System: RSTS, RSX

Keywords: • Financial planning • Forecasting
• Materials handling • Spreadsheets

Distribution media: diskette, hard disk, magnetic tape.

The BASYS package of software programs provides highly efficient processing in all areas of operations: customer servicing, back-office processing, cash reconciliation and audit, and management controls. Some specific features of the system include savings and loan processing; certificates of deposit; money market, retirement, and checking accounts; variable-rate, mortgage, and commercial loans; integrated general ledger; generalized report generator; and ATM support.

Various configurations are available for the PDP-11/23 to the PDP-11/70 to accommodate customer accounts from 3000 and up.

Price: \$35,000 – \$90,000

Contact: R. David Fuchs
(212) 685-1880

GENERAL SYSTEMS CORP.

100 Park Avenue

New York, NY 10017

Business Information System

Operating System: RSX

Keywords: • Accounting • Financial analysis
• General ledger • Payroll

This integrated financial package performs payroll, accounts receivable and billing, accounts payable, and general ledger functions. The system also prints financial statements. The system is applicable to organizations in the \$3 million to \$30 million range.

The system uses interactive processing. Operation can be local or through telephone communications. Personnel with no prior computer experience or training can use the system. English-language prompts are used exclusively.

The system provides an integrated data base for both financial and operations data. Reports with key management information on productivity, costs per unit, and other performance measures can be provided. The data base and software are available in single- and multiuser versions and can accommodate various kinds of growth. The system offers multicompany processing and automatic verification of data base integrity.

Custom-designed financial statements can be changed with no programming. Financial statements can include operations data as well as conventional financial information.

A high level of continuing maintenance and support is available, along with custom tailoring and other special software. Options are a report writer, to provide user-designed nonstandard reports, as well as integrated job cost accounting, order entry, and purchase order processing.

A version of this product is available for the VAX computer.

Banking — General Applications

Operating System: CTS-300, RT-11

Keywords: • Banking • General ledger

Distribution media: magnetic tape, RK07, RL01, RL02.

This total, commercial on-line banking system processes checking accounts, savings, loans, certificates of deposit, daily statements, and general ledger. The system has spooling and complete daily backup procedures. The system interfaces to bank proof systems or, for smaller banks, has a batch-entry system. Features include:

- Full inquiry to all files
- Checking with ready reserve or plus checking, automatic transfers from savings, optional trial balance, complete OD and NSF advice print, automatic service charge, and profit-and-loss customer reporting
- A savings system with variable-interest calculation routines, demand statements, automatic transfer notices to checking, annual 1099 print, and all regular exception reporting
- A loan system that includes transaction history for inquiry display with the option of printing history ledgers
- A complete accrual along with call-statement reporting: interest projection report, aged delinquency, maturity tickler advice, and officer and bank-rate analysis along with yields
- Certificate of deposit processing with variable-interest formulas, multiple certificate holder recap, and variable-interest crediting
- Central file and asset/liability management

The system is excellent for banks \$5M through \$500M in deposits.

A version of this product is available for the VAX computer.

Price: \$20,000 – \$30,000

Contact: R. Bud Brummer

(605) 343-7800

CUSTOM COMPUTER SERVICES, INC.

P.O. Box 1738

Rapid City, SD 57709

BASYS (Retail Banking System)

Operating System: RSTS

Keywords: • Banking • General ledger

BASYS is an in-house retail banking system for the complete management and automation of the banking operation. BASYS allows users to conduct real-time processing, with instantaneous updating and retrieval of information at every level of activity and service of a modern financial institution.

ARCHON: FRS (Financial Reporting System)**Operating System:** RSTS**Keywords:** • Accounting • Education • Financial analysis
• Government

This generalized system of computer programs provides a sound financial reporting basis for educational institutions and other non-profit organizations. FRS performs accepted accounting practices in accordance with models such as the Planned Program Budgeting System (PPBS), financial guidelines issued by the American Institute of Certified Public Accountants (AICPA), the National Association of Colleges and University Business Officers (NACUBO), and Handbook II, revised. FRS combines several standard accounting functions, such as budgetary expenditure and encumbrance accounting, revenue or income accounting, accounts payable processing, and general ledger, including financial reporting. Five-year budget versus actual financial data is maintained by the system and is available for analysis, using the extensive reporting capabilities of FRS and our data management system, QDMS. The payroll and personnel system (PAY) and the billing system (BILLS) are designed to interface with FRS.

A version of this product is available for the VAX computer.

Price: \$14,740

Contact: Ila Sunshine
(203) 728-6777
QUODATA CORP.
266 Pearl Street
Hartford, CT 06103

Banker's Credit Management System**Operating System:** RSTS**Keywords:** • Banking • Credit • Financial analysis

This system analyzes financial information provided to a bank by a prospective commercial credit client. Standard-format financial reports suitable for presentation to a credit committee are generated: cash flows, net worth reconciliations, and analytical ratios. Twelve-month and/or 5-year projections that compute the client's ability to repay a requested loan can be generated automatically.

Price: \$3985

Contact: Alfred V. Bruns
(214) 690-1325
SUNBELT COMPUTER SERVICES, INC.
9202-B Markville Drive
Dallas, TX 75243

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- Analysis is done on income statements with budget comparisons (year to date and current period), prior-year/period actuals comparison (also year to date and current period), investment registers drawing cost versus market value, indicated incomes, and yields by security.
- Cash management is accomplished by daily cash availability reports showing all entities' current cash balances.

A version of this product is available for the VAX computer.

Price: \$40,000 – \$80,000

Contact: Tom Muskiluke
(519) 893-4200

DIGITAL BUSINESS COMPUTERS

133 Manitou Drive

Kitchener, Ontario N2C 1L4

Canada

APPGEN Professional Time Reporting

Operating System: UNIX* (Version 7), XENIX

Keywords: • Billing • Project management • Report writer
• Scheduling

This program provides the following:

- Reports for projected versus actual expenditures for projects and budget categories within each project
- Employee utilization information showing percentages of available versus charged time
- Project analysis of expenditures for various user-defined activity categories
- Tracking of charges to projects by hours and expense items
- Profitability reports on a project-by-project basis
- Maintenance and reporting of information relating to company costs, project charges, and client billings
- Screen display allowing immediate access to summary information for each project, including budgeted and actual labor and expenses

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$2500

Contact: Steve Thomas, Vice President, Marketing
(713) 974-2298 or (800) 231-0062

SOFTWARE EXPRESS

2925 Briarpark Boulevard, 7th Floor

Houston, TX 77042

Price: \$1500 - \$9500

Contact: Sherrell Harper
(619) 474-2010

COMPUTER COGNITION

225 W. 30th Street

National City, CA 92050

AMFACS

Operating System: RSTS

Keywords: • Accounting • Financial analysis
• General ledger

This interactive financial management system features user-defined accounting periods, journals, financial reports, and an on-line maintenance capability. Security is ensured with password protection for all key modules. Reporting capabilities include balance sheet, trial balance, general ledger, income statement, footnotes to financial statements, and a statement of retained earnings.

A version of this product is available for the VAX computer.

Price: \$3000 - \$12,500

Contact: Marketing Department
(502) 491-9820 or 1 (800) 626-6268

AMCOR COMPUTER CORP.

1900 Plantside Drive

Louisville, KY 40299

AMS (Asset Management Client Reporting System)

Operating System: CTS-300, RSTS

Keywords: • Financial analysis • General ledger
• Investments

AMS is an on-line asset/portfolio investment management system with a fully integrated general ledger to facilitate effective management and full entity reporting (financial statements and investment review). The system performs five basic functions:

- Recording is done through the entry, processing, and posting of capital and income transactions.
- Control is provided by transaction and investment registers, cash statements, income-due reports, and inquiry routines. Every entry to the system produces a complete audit trail.
- Internal/external reporting is presented by investment summaries, income summary reports, transaction statements, and financial statements (balance sheet and income statement).

Designed for companies ranging from 5 to 2000 employees, ACUITY Financial Software offers sophisticated audit trails, security by application and by user, local printer support, and TTY handler for Packet Switched Networks (such as TELENET). Computer Cognition supports end users with a 1-year warranty, with maintenance available thereafter. Installation, training, and customization are available.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$1500 – \$9500

Contact: Sherrell Harper
(619) 474-2010

COMPUTER COGNITION
225 W. 30th Street
National City, CA 92050

ACUITY Purchase Order and Receiving System

Operating System: UNIX* (System III, System V, Version 7)

Keywords: • Inventory • Materials handling
• Project management • Purchasing

This system enables companies to issue computer-printed purchase orders, to track outstanding orders, to monitor supplier performance, and to ensure that delivery schedules are met.

Purchase orders in final form can be entered and left in the system until explicitly released by purchasing personnel. Order-by-order control of acknowledgments and confirmations is permitted. Complete integration between the ACUITY Inventory Management and Accounts Payable is provided; those systems are required. In addition, ACUITY Project Management system will receive commitment transactions from the Purchasing system to track subcontractor and materials costs for projects. Cost controls are implemented through automatic checking of ordered versus invoiced unit pricing, average pricing, total purchase order dollar volume, and other methods. Schedule receipts can be reported by project, by vendor, or by item.

Designed for companies ranging from 5 to 2000 employees, ACUITY Financial Software offers sophisticated audit trails, security by application and by user, local printer support, and TTY handler for Packet Switched Networks (such as TELENET). Computer Cognition supports end users with a 1-year warranty, with maintenance available thereafter. Installation, training, and customization are available.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

This collection of integrated business systems provides improved procedures, reduced paperwork, and timely information for later profitability. This flexible system meets the needs of a small company with a dedicated computer or a multidepartmental organization requiring simultaneous computer access from many locations. Features include extensive validation of input, comprehensive balancing and batch controls, audit trails, and immediate validation of general ledger; distribution accounts for all companies and/or organizational units; complete, automatic generation of journal entries for simplified interface with general accounting; simultaneous accommodation of multiple accounting periods, eliminating the need to close one period before proceeding to the next one; vouchers-paid history by vendor; ability to enter vouchers for standard vendors and 1-time vendors; and automatic determination of scheduled installment payment amounts and due dates.

A version of this product is available for the VAX computer.

Price: \$3000 - \$5000

Contact: E. Jackson Smith
(301) 296-9032

SMITH, ABBOTT, AND COMPANY, INC.
300 E. Joppa Road
Baltimore, MD 21204

ACUITY General Ledger

Operating System: UNIX* (System III, System V, Version 7)

Keywords: • Accounting • Financial analysis
• General ledger • Report writer

ACUITY General Ledger, which can be interfaced to all other ACUITY systems, has a user-defined financial statement report generator, which allows the user to specify which accounts and formats the statement will include. The system maintains all detail so that financial reports can be produced for any time period during the year, not just monthly. A standard journal transaction can be generated automatically, or transactions can be entered through the general journal transaction program. Financial statements include profit and loss statement, balance sheet, supporting schedules, source and applications of funds, cash flow, and statement of working capital. If the ACUITY Project Management system is used, a project profit and loss statement is available.

Additional features include audit trail tracking by batch, the ability to track the last interface date from each of the other systems, and multiple company consolidation.

414 Financial Management

Refer to SPD #A3.88.00 when requesting further information on this product from your local DIGITAL sales office.

Supercomp-Twenty™ is a trademark of Access Technology, Inc.

Price: \$600

Contact: Consult your local DIGITAL sales office (see Introduction).

ACCESS Financial Systems

Operating System: RSTS

Keywords: • Accounting • Banking
• Information management

Distribution medium: 9-track 1600 bpi magnetic tape.

This complete in-house central information file system features easily installed parameters and menu-driven software modules, personal computer interfaces, and a report generator.

The system provides timely management information, government reporting information, consolidated interest reporting information, on-line central information files, daily processing, ongoing regulatory compliance, real-time file maintenance, interbank/intrabank messages, memo post capability, multibranch/multibank capability, multiple-level terminal-access security, in-depth account analysis, comprehensive training, aggressive conversion support, easy-to-read documentation, and high-speed MICR and central proof item capture for input from SCC reader sorter, IBM, NCR, and Burroughs proof equipment.

ACCESS also performs integrated general ledger with budget monitoring, loan participation management, and full accrual accounting. ACCESS also uses existing transaction codes and account numbers, produces common forms, prepares audit confirmation notices, and supports on-line ATM and teller terminal support.

A version of this product is available for the VAX computer.

Price: \$25,000 – \$200,000

Contact: Steve Nau, President
(417) 881-5057

SPRINGFIELD COMPUTER CONSULTANTS, INC.
1949 East Sunshine, Suite 2-116
Springfield, MO 65804

Accounting

Operating System: RSTS

Keywords: • Accounting • Audit • General ledger • Payroll

Distribution media: magnetic tape, RL02, RX01, RX50.

The on-line multiple-terminal 1040 Tax System prepares federal income tax forms, related schedules, and selected state income tax routines. The features include preprinted or computer-generated forms and overlays, automatic pro forma generation, taxpayer systemizer, interview sheets corresponding to federal forms, complete diagnostics, transmittal letter, selected state tax routines (31 states), automatic taxpayer billing computation, multiple-terminal and remote-terminal operation, automatic update of state return from federal return, exclusive "password" security system, and fast retrieval of taxpayer interview, facilitating individual additions, corrections, and returns.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Bob Sprowls

(904) 434-2685

DIGITAL SYSTEMS, A DIV. OF UCCEL

114 E. Gregory Street

Pensacola, FL 32501

A-to-Z Supercomp-Twenty,™ Version 1.25 (36)

Operating System: Micro/R SX

Keywords: • A-to-Z • Office systems • Spreadsheets

Distribution medium: RX50.

This portable electronic spreadsheet program combines the ease of use common to microcomputer packages with the modeling power of mainframe financial-planning packages. Extensive documentation, on-line help, and user-friendly screen orientation enable the novice to build realistic business plans in a few hours.

The system:

- Contains flexible file handling, command files, custom report generation, and large model space, allowing the system to handle corporatewide tasks, such as budget consolidation, inventory, scheduling, and investment planning
- Draws data from many sources, including general ledgers and most data base packages, permitting a portable modeling activity to be shared among several machines
- Reads files from or creates files for any program using data in a tabular format
- Runs compatibly with programs that format text and data in prescribed fields
- Allows worksheets 999 columns by 999 rows
- Enables the user to redefine the terminal keys and to define new terminal types by editing the terminal definition file

DIGITAL distributes this software product under license from Access Technology, Inc.

1040 Tax Planner

Operating System: CTS-300, RSTS, RSX, TSX-PLUS

Keywords: • Financial analysis • Financial planning • Taxes

This comprehensive planning tool estimates the current year's taxes and projects taxes for the next three years. The system is programmed to account for legislated changes in the tax laws in future years and allows the preparer to determine the present value of alternative tax situations. The system computes the regular tax, income averaging, alternative minimum tax, self-employment tax, and savings over regular tax. The capability of preparing extensions (Form 4868) is also provided. Data-Tax Planner software is also fully integrated with the Data-Tax 1040 Tax System.

Price: \$395

Contact: Scott Stearns

(312) 369-2414

DATA-TAX, INC.

710 E. Ogden Avenue

Naperville, IL 60540

1040 Tax System

Operating System: CTS-300, RSTS, RSX, TSX-PLUS

Keywords: • Taxes

The complete Data-Tax 1040 Tax System prepares 35 federal schedules, associated supporting schedules, recap reports, diagnostics, office billing, client bills, client letters, labels, and as many as 23 integrated state tax systems. Software includes a depreciation system with automatic transfer to the appropriate schedule(s). Pro forma information prints on the actual preparer interview/input sheets. All schedules print on government-approved preprinted continuous forms.

Multiple workstation capabilities, variable file sizes, user-defined file locations, and so forth, give you the flexibility of customizing this system to best meet your office needs.

Price: \$995 +

Contact: Ken Stvan

(312) 369-2414

DATA-TAX, INC.

710 E. Ogden Avenue

Naperville, IL 60540

1040 Tax System

Operating System: CTS-300, RSX, RT-11

Keywords: • Financial analysis • Report writer • Taxes

Financial Management



410 Facilities Management

UNI can provide three broad categories of information related to the needs of a project: personnel, equipment, and space requirements projections; special characteristics (attributes of items in the space program); and adjacency data for groups.

UNI establishes space requirements over points in time when the information is desired. Plan dates are usually set to coincide with an organization's expansion and development milestones.

UNI's information can automatically be passed in machine-readable form to The Computer-Aided Design Group's Stacking and Block Plan programs (SABA).

A version of this product is available for the VAX computer.

Price: \$2500 - \$19,500

Contact: Thomas Kvan
(213) 392-4183

THE COMPUTER-AIDED DESIGN GROUP
2407 Main Street
Santa Monica, CA 90405

Price: \$12,550 – \$19,975

Contact: Robert L. Hirtle
(904) 433-7578

ATS DATA PROCESSING, INC.
1101 North 9th Avenue
Pensacola, FL 32501

Start/Stop Time Optimization — System 600

Operating System: RSX

Keywords: • Electrical • Energy • Scheduling

This package is designed to run in conjunction with the MCC Powers System 600 kernel to adjust the daily start and stop schedules of major mechanical equipment in buildings and to compensate for changes in internal and external building loads.

Price: \$2500

Contact: James M. Urbanczyk, Manager, Sales Support
(312) 272-9555

MCC POWERS
2942 MacArthur Boulevard
Northbrook, IL 60062

UNI (User Needs Information)

Operating System: RSX

Keywords: • Architecture • Data collection
• Property management

Distribution medium: 1600 bpi magnetic tape.

This set of procedures and computer programs collects and manages information about group space for architectural or interior projects. Managers' knowledge of needs for personnel, equipment, and support spaces, both current and projected, is solicited on questionnaires and interview forms. UNI manipulates square-footage data, based on the information on the forms. Reports are generated by the computer, providing the designer with an analysis of each group's square-footage needs as well as summaries for the project.

UNI is a general programming tool for preparing the analysis of client needs. UNI can be used at a general level for building sizing and area projections. At a detailed level, UNI is used for determining criteria for interior planning. The program is particularly powerful for facility programming with repetitive elements — for example, offices, medical facilities, hotels, dormitories, educational facilities, laboratories, and multiple-tenant residences.

Input to the Block Plan Program is a similar list of activities, areas, and interaction requirements. The program uses a plan description of the available floor area onto which the requirements are to be laid out. The objective is to place activities on the floor so that highly interrelated activities are located close together. Zones, preassignments, and fixed elements in the plan can also be taken into consideration. Output is a plan of the floor, with activities located — either printed, using line printer character graphics, or plotted on a graphics plotter.

A version of this product is available for the VAX computer.

Price: \$9500 — \$14,500

Contact: Thomas Kvan
(213) 392-4183

THE COMPUTER-AIDED DESIGN GROUP
2407 Main Street
Santa Monica, CA 90405

SESAM-11 (Security/Access Control System)

Operating System: RSX

Keywords: • Personnel • Property management • Real time
• Security

Distribution media: magnetic tape, RL02.

SESAM-11 controls entry to facilities by regulating locking devices. Multiple levels of security, from simple identity checks to privileged access, can be implemented. The intelligent terminals used to regulate the locking devices have battery backup and will continue to function even if separated from the host.

SESAM-11 can be combined with TEMPUS-11, the time and attendance system, to add security access control to real-time personnel information. TEMPUS-11 records work-force status and provides continuous input to cost centers while SESAM-11 guards access to restricted areas. SESAM-11, with its convenient credit card-like identity check, can screen personnel quickly and efficiently. Where more restrictive access is necessary, SESAM-11 can require knowledge of unique codes in order to gain entry.

Records of unauthorized entry attempts and all access by identity card and time provide indicators of potential deficiencies in the security system. Reliable equipment and efficient software can accomplish the routine, repetitious screening and checking, allowing security personnel to concentrate on enforcement, information, and interpersonal activities.

A version of this product is available for the VAX computer.

- The Plant Operator's module gives operations personnel static, on-line information needed to determine whether machinery is operating within normal operating parameters and to keep the plant running safely and efficiently. That information includes trends, bar graphs, alarm indication, a sequence-of-events log, reports, current values, train block diagrams, a set-up list configuration, comments, and graphic data listings.
- The Maintenance Engineer's module provides steady-state dynamic information that enables maintenance engineers to determine how long a machine can operate in its present condition, what is mechanically wrong with the machine, and when down time should be scheduled. That information is presented in orbit, spectrum, and time base formats.
- The Machinery Specialist's module provides transient dynamic information, taken during startup and shutdown, that is required to prevent serious machinery problems. That information is presented in polar, cascade, and bode formats.

Price: \$33,000 – \$75,000

Contact: Applied Engineering
(702) 782-3611 ext. 9428
BENTLY NEVADA CORP.
P.O. Box 157
Minden, NV 89423

SABA (Stacking and Blocking Algorithm)

Operating System: RSX

Keywords: • Architecture • Graphics • Property management

Distribution medium: 1600 bpi magnetic tape.

This system provides space planners with powerful, easy-to-use tools for producing locational stacking plans and schematic block floor plan layouts for buildings. The SABA systems reliably produce high-quality solutions to both large and small problems, at relatively moderate cost for data preparation and computer processing.

Input to the Stacking Plan Program is a list of spaces, workstations, or departments to be located in a building or buildings, together with their required areas, their adjacency/communication requirements, and a description of the floors into which they are to be placed. The system's objective is to assign activities (spaces, workstations, departments, and so on) to zones (buildings, floors, and so on) so that highly interrelated activities are placed onto the same or adjacent zones, and intrazone circulation is minimized. Output is a printed list of the activities assigned to each zone, which resembles a "section" of the building, showing all occupancies and areas used.

406 Facilities Management

Price: \$64,000 – \$120,000

Contact: Donald J. Kawaja
(416) 596-6944

G. K. FLEMING AND ASSOCIATES LTD.
156 Front Street West
Toronto, Ontario M5J 2L6
Canada

PMST (Preventive Maintenance Scheduling and Tracking System)

Operating System: RSX, RT-11

Keywords: • Maintenance • Scheduling

Distribution media: magnetic tape, RL01, RL02, RX01, RX02.

This system tool for ensuring that preventive maintenance is scheduled for many pieces of equipment also provides status reports of scheduled preventive maintenance and documentation of completed preventive maintenance. The system also supports many other useful functions. The companion Repair History Tracking software provides for printing repair work orders and listing completed and outstanding work orders.

A version of this product is available for the VAX computer.

Price: \$4000 – \$7000

Contact: Ralph M. Flanders, President
(615) 966-6832

CUSTOM COMPUTER SOFTWARE, INC.
1108 Woodshire Drive
Knoxville, TN 37922

ROMIS™ (Rotating Machinery Information System) Large Host

Operating System: RSX

Keywords: • Decision support • Instrumentation
• Maintenance • Operations

This system, in conjunction with the Smart Monitor,[®] provides machine vibration information for plant operations personnel, plant engineers, and machinery specialists. The system features a high-performance central processing unit, large storage media, and 22-bit central memory addressing for multitasking operations. High-quality color graphics, hard-copy data, and graphics output are standard features of the Smart Monitor software. The following Smart Monitor modules are written in MACRO-11 and FORTRAN-77:

Price: \$2000

Contact: James M. Urbanczyk, Manager, Sales Support
(312) 272-9555

MCC POWERS

2942 MacArthur Boulevard
Northbrook, IL 60062

PMIS (Plant Management Information System)

Operating System: RSTS

Keywords: • Accounting • Maintenance
• Property management • Purchasing

Distribution media: magnetic tape, RL02.

This adaptable interactive computer system provides operating and management information to effectively manage, maintain, and operate an industrial plant consisting of repairable assets.

PMIS provides:

- Plant asset and equipment management incorporating a multilevel bill of material, parts lists, and where-used lists; performance monitoring; unlimited technical description; and summary and detailed technical maintenance history.
- Work planning, forecasting and scheduling of trade, materials and plant to planned repair, preventive maintenance, and project and miscellaneous work.
- Materials management, including requisitions, purchases, receipts, issues and materials reservation for spare parts stores, and general inventory or work order stores. Free issue, tools, and employee stores are accommodated.
- Automatic cost distribution and reporting by account, asset, equipment and work order of maintenance labor, stores materials, and purchased goods and labor.

PMIS is available as a turnkey system consisting of operating system software, application software, installation, training and documentation, ongoing system support, and computer hardware. PMIS is available in BASIC-PLUS-2 for the PDP-11 and in VAX-11 BASIC.

A license to run PMIS software may also be purchased. That option includes application software, installation, training, and documentation.

A version of this product is available for the VAX computer.

404 Facilities Management

The system provides a means of scheduling and reporting equipment performance measurements. Parameters such as operating temperature, motor current, and filter pressure readings are compared with established normals to indicate the need for adjustment, repair, or replacement of equipment.

An equipment cross-reference list allows the user's inventory of capital equipment to be organized by equipment type, manufacturer, or location and assists in developing a standard routine preventive maintenance schedule for similar types of equipment.

A labor summary report informs management of the relative efficiency of each maintenance craft or shop by reporting both the type and the amount of work done by each craft. The report compares both the number of work orders and labor hours scheduled with the actual number of work orders and labor-completed hours expended.

The cost center report enables management to allocate or charge back the cost of maintenance labor and materials to specific departments or projects. The report also documents manpower requirements.

Work logs are automatically produced to schedule and control routine equipment maintenance procedures. Routine work is expedited, since the logs group similar tasks to be performed on equipment within a specific geographic zone or location.

The system consists of approximately 70 application program modules written in 1974 ANSI Standard COBOL. A COBOL run-time system is provided for RT-11 systems. A COBOL compiler is required for RSTS, RSX-11M, and VMS systems.

A version of this product is available for the VAX computer.

Price: \$15,000

Contact: Tom Coleman, Systems Manager
(616) 676-2666

FAIRBROTHER CORP.

6090 E. Fulton, P.O. Box 211

Ada, MI 49301

Peak Demand Limiting — System 600

Operating System: RSX

Keywords: • Electrical • Energy

This package is designed to run with the MCC Powers System 600 kernel to monitor and control electrical demand charges and to minimize electric utility charges.

Maintenance Management — System 600

Operating System: RSX

Keywords: • Inventory • Maintenance
• Property management • Scheduling

This comprehensive software package is available either as a stand-alone system or as an application routine for the MCC Powers System 600 Building Management System. S600/Maintenance Management automatically schedules and generates work orders, tracks historical information on maintenance performed, controls inventory, and provides a comprehensive set of reports to help the user manage the maintenance function more efficiently.

This system is designed to enable building managers and owners to schedule maintenance. The system also allows them to keep records of labor and material used and an inventory of maintenance parts and supplies.

Price: \$6000 — \$12,000

Contact: James M. Urbanczyk, Manager, Sales Support
(312) 272-9555

MCC POWERS
2942 MacArthur Boulevard
Northbrook, IL 60062

Maintenance Management System

Operating System: RSTS, RSX, RT-11, TSX-PLUS

Keywords: • Cost accounting • Decision support
• Maintenance • Property management

This comprehensive application software package helps manage and control preventive (PM) and repair maintenance of plants and equipment. The system handles manpower planning, work order scheduling and tracking, and cost accounting more quickly and effectively and with less paperwork than manual methods do. Individual users can customize the system with system codes that define maintenance locations or zones, crafts or shops, and so on.

Complete, accurate, and readable PM work orders are printed automatically before a calendar period from task descriptions and schedules. Unscheduled work orders are entered manually. Uncompleted work appears on a backlog report until the work order is completed or canceled. The system guards against work-order pileup.

A permanent history of equipment repairs and inspections aid in making repair or replace decisions. That history also provides documentation for safety, legal, or insurance compliance.

This comprehensive software package provides total command of all the elements that determine the efficiency level of any maintenance operation. MAINSTAY was designed for large plant environments, including chemical and process industries, large manufacturing and assembly facilities, and utilities.

MAINSTAY is functionally modular. The system supports work order generation, planned maintenance, equipment identification and history, inventory control, purchasing, resource control and allocation, employee work assignment and accounting, and cost accounting.

All system components are on line and provide the user with data reflecting an activity's present operational status. MAINSTAY's data base management system produces timely and accurate information. Once data has been entered into the system, multiple users can access the same version of the requested information.

A version of this product is available for the VAX computer.

Price: \$85,000 – \$110,000

Contact: Larry DeFrance

(615) 399-1979

MORROW COMPUTER

1140 Murfreesboro Road

Nashville, TN 37217

MAINSY-IMPRS Preventive Maintenance System

Operating System: RSTS, RSX, RT-11

Keywords: • Cost accounting • Maintenance • Scheduling

MAINSY-IMPRS schedules preventive maintenance and maintains complete historical summary information. Any type of maintenance schedule may be set up — on a daily, weekly, monthly, quarterly, semiannual, or annual basis. Schedules may be selected for printing by frequency, by cutoff date, or by PM number. Summary schedules or the full schedule (with text) may be printed.

The system has complete data verification and on-line validation capabilities. Job costing information is applied through on-line time-card entry. A full year's PM historical information is kept on line. Instant access is available to all master files for selective reporting.

A version of this product is available for the VAX computer.

Price: \$2500

Contact: Forrest E. Weddle

(913) 782-8544

RUF CORP.

1533 E. Spruce

Olathe, KS 66061

This system, written in BASIC-PLUS, uses bar-coded labels and a portable bar-code reader. The labels will withstand grease, oil, and heat. Biomedical clinics are using the labels on equipment subject to the sterilization process.

Inventory of the fixed asset is taken using the portable reader. The information is transmitted to the computer directly or through phone lines.

An exception report of moved or missing equipment is produced that saves inventory-taking time by 78%, eliminates long printouts, and eliminates expensive key entry.

Users include companies with a large number of desks and typewriters, manufacturers, hospitals, and colleges and universities.

A version of this product is available for the VAX computer.

Price: \$3000 - \$11,000

Contact: Mel J. Endelman
(604) 926-7222

BAR CODE APPLICATIONS INC.
1609 Broadway, Suite A
Bellingham, WA 98225

Level IV System

Operating System: RSX

Keywords: • Banking • Security • Warehousing

Level IV System is an integration of hardware and software that provides card access, critical-point monitoring, and output control. The system operates in real time to perform the following security and control functions: monitor and control equipment; count total events; perform functions based on time, events, or manual commands; provide access control; selectively log events and store historical trend data; and generate data base and historical reports.

Price: \$9500 - \$35,000

Contact: Thana Hallick
(414) 281-0503

NATIONAL CONTROL SYSTEMS, INC.
9880 South Ridgeview Drive
Oak Creek, WI 53154

MAINSTAY®

Operating System: RSX

Keywords: • Inventory • Maintenance • Manufacturing

400 Facilities Management

Price: \$20,000

Contact: James M. Urbanczyk, Manager, Sales Support
(312) 272-9555

MCC POWERS

2942 MacArthur Boulevard
Northbrook, IL 60062

CMMS (Comprehensive Maintenance Management System)

Operating System: RSTS, RSX, RT-11

Keywords: • Environmental • Maintenance
• Materials handling • Process control

This stand-alone system can be interfaced to run with any EMCS system and allows easy addition, deletion, modification, display, and summary operations. The system keeps track of work requests that are outstanding, forecasts what is coming up in whatever time period the operator requests, and stores completed work orders in a file for historical analysis.

A version of this product is available for the VAX computer.

Price: \$4500 - \$6500

Contact: Carl Luhman
(619) 270-4552

CENTAURUS SOFTWARE, INC.
4425 Cass Street, Suite A
San Diego, CA 92109

Duty Cycling — System 600

Operating System: RSX

Keywords: • Electrical • Energy

This package is designed to run with the MCC Powers System 600 kernel to monitor and control run time of a building's mechanical and electrical devices, cycling such devices to reduce energy use while maintaining temperature conditions in the building.

Price: \$2000

Contact: James M. Urbanczyk, Manager, Sales Support
(312) 272-9555

MCC POWERS

2942 MacArthur Boulevard
Northbrook, IL 60062

Fixed-Asset Control

Operating System: RSTS

Keywords: • Fixed assets • Inventory • Property management

badges, and includes guard door open, automatic lock and unlock, door ajar, day of week override, bulk card input, and many management reports.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$80,000

Contact: Laurel McDaniel
(312) 332-3242

NEAL NELSON & ASSOCIATES
185 N. Wabash, Suite 1908
Chicago, IL 60601

Athena Distributed Control System

Operating System: RSX

Keywords: • Engineering • Environmental • Manufacturing
• Process control

This software system for data acquisition, alarming, control, and user-defined batch and continuous-process control contains user-friendly menu-driven graphics (black and white or color) with schematic, real-time displays of data, light-pen input, and user-defined slides. The system uses distributed intelligence in gathering field data, with fail-over protection. Athena is a general-purpose distributed-processing and control system for large-scale applications, such as energy and facilities management, supervisory control and data acquisition, power or water distribution systems, and slow-process control.

Price: \$18,000 – \$30,000

Contact: Carl Luhman
(619) 270-4552

CENTAURUS SOFTWARE, INC.
4425 Cass Street, Suite A
San Diego, CA 92109

Building/Energy Management System (Kernel) — System 600

Operating System: RSX

Keywords: • Data collection • Electrical • Energy

This program is a group of tasks that provide monitoring, control, and man/machine interface requirements of a building automation system. Included are all data base, communication, MMI, graphics, and data manipulation tasks necessary to provide supervisory control of building electrical and HVAC functions. Also included are tasks to accomplish various energy and building management functions, using data acquisition hardware manufactured by MCC Powers.

ABC Maintenance Management System

Operating System: RSTS

Keywords: • Fixed assets • Inventory • Maintenance
• Property management

This package, developed by ABC Management, Inc., automates the clerical and planning work of maintenance in manufacturing, processing, utility and industrial plants, institutions, hospitals, schools, and maintenance and repair businesses. ABC handles maintenance labor to process daily time cards; to report job progress, time, and cost for maintenance accounting; and to provide payroll data. The ABC modules are as follows:

- Work-Order Backlog provides a systematic review of job priorities and work-load backlog, scheduling weekly work according to each manpower craft.
- Planning Aids computes net capacity, backlog by craft, and time-slot averages on a moving-averages basis.
- Work-Order Activity provides a daily activity report, weekly performance report, and a weekly and monthly work-order review.
- Monthly Budget Report offers an equipment-history record, which provides data and a spare-parts list for each piece of equipment and is updated with maintenance history; a stores catalog, which shows availability and cost of maintenance and parts; and material requisitions for maintenance work, which are costed and charged against a work order and deducted from inventory.
- Preventive Maintenance issues work orders weekly, reports overdue inspections and follow-up, and controls generated repair work orders.

A version of this product is available for the VAX computer.

Price: \$16,000 – \$59,000

Contact: William Pickard
(206) 545-7111

VERTICAL SYSTEMS, INC.
909 N.E. 43rd Street, Suite 206
Seattle, WA 98105

Access Control

Operating System: ULTRIX-11, UNIX* (System III, System V)

Keywords: • Security

The system, designed as a high-volume, high-capacity, fast-response access control system, supports multiple local or remote control consoles with optional printers and also provides for 1000 individual doors and up to 56,000 badges. The system has three levels of validation and two sets of access parameters for each badge and accepts input from numeric touch pads in conjunction with badge reader input. The system processes lost badges, allows for self-expiring

Facilities Management



396 Engineering

Price: \$1200 - \$1400

Contact: Robert E. Branch, P.E.
(800) 368-4203

TECHNICAL INFORMATION SYSTEMS, INC.
116 W. Plume Street
Norfolk, VA 23510

Wood Beam Check

Operating System: RSTS, RT-11, TSX-PLUS

Keywords: • Architecture • Civil engineering • Government
• Materials handling

Distribution media: 9-track 1600 bpi magnetic tape, RX01, RX50.

This analysis program verifies the design techniques of wood structures, allows superimposition of multiple vertical forces — point loads, uniform loads, and increasing/decreasing loads — on wood structures for load analysis, verifies a designed structure and reports compliance with the uniform-building code, and transfers resultant forces into a uniform distributed load for transfer to the next phase of the analysis. Printed reports are available at each solution point within the program.

A version of this product is available for the VAX computer.

Price: \$2100 - \$10,000

Contact: Michael D. Dahmer, P.E.
(208) 324-3187

SYSTEMS ASSOCIATES, INC.
573 Glacier
Jerome, ID 83338

WTCOAT

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. **Distribution medium:** 8" diskettes.

This program, written in FORTRAN, designs the thickness of weight coat required on a pipe to produce a selected amount of negative buoyancy in either fresh or salt water. The program also enables users to enter any other specific gravity and permits the design of river weights and spacing.

Price: \$100

Contact: J. Bill Wallace
(714) 848-4405

COMPUTAPIPE
17610 Beach Boulevard, Suite 56
Huntington Beach, CA 92647

- The System Description Module allows the ordered entry of the data describing the multibranch system through its parameters set: flexibility of the axes, inertia of rotating masses geometry, and so on. The model can also handle one component with nonlinear characteristics.
- The Eigen-Values Calculation Module provides an accelerated method of evaluating the eigenvalues and eigenfrequencies of the undamped system described by module 1.
- The Amplitude Calculation Module estimates the maximum amplitudes of the torsion vibration torques at the eigenfrequencies and at various harmonic frequencies of the engine torque (from .5 to 12). The prescriptions of the Lloyd's Register of Shipping are observed.
- The Output Module displays a tabulated or graphical output of the results, with an indication of those critical points where the maximum admissible torque is exceeded.

Price: \$6000

Contact: Willy Claes

0415 61130

CENTRE DES TECHNOLOGIES NOUVELLES

Domaine du Sart Tilman, B26

B-4000 Liege

Belgium

WATDIS (Water Distribution System Analysis)

Operating System: RSTS, RSX

Keywords: • Civil engineering • Flow analysis

Distribution media: 9-track 800/1600 bpi magnetic tape, RL02, TU58 DECtape II cartridge.

WATDIS analyzes water distribution systems. Any type of pipe system can be analyzed. Pressure or flow requirements can be specified, and any number of storage tanks, pumps, valves, meters, and fittings can be input. Pumps can be specified by useful power or by inputting head flow data from operating curves. Check valves may be used also. Flow units of CRS, GPM, MGD, or SI are acceptable. Output includes pressures, elevations, and grade lines at all junctions; head losses in lines and at all valves; and pump heads, flow rates, and flow velocities. WATDIS is limited to 175 pipes for the PDP-11 and 600 for the VAX.

WATDIS is the PDP-11 and VAX-11 conversion of the University of Kentucky water distribution analysis software.

A version of this product is available for the VAX computer.

from the random data is performed 2-dimensionally rather than the more typical linear interpolation. Thus, accuracy of results does not depend on defining special features.

The VANGO DTM Highway module, fully integrated with the DTM Earthwork module, permits passing cross-sectional templates, each following its own alignment and profile, through the Digital Terrain Model. The templates and the side slopes may change at any station and can represent a highway, transportation corridor, channel, or rail line. Since existing terrain cross sections along the proposed route are not required, this module is ideal for studies requiring analysis of several alternate routes or several iterations of a chosen route. Profiles, daylight lines (catch points), cross sections, mass, and haul diagrams are quickly generated for each iteration of alignment and profile, enabling an optimum route to be established.

A version of this product is available for the VAX computer.

Price: \$12,500 - \$80,000

Contact: Charles Oliver

(714) 660-8855

VLSYSTEMS, INC.

2691 Richter, Suite 118

Irvine, CA 92714

Variable-Metric Routine for Function Minimization

Operating System: Independent

Keywords: • Mathematics • Programming tools • Statistics

This routine finds a local minimum of an arbitrary differential function with respect to a number of parameters. When used for least-squares fitting, it estimates the variance matrix of the parameters. DECUS number 11-432.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

VIBTOR (Vibration/Torsion)

Operating System: RSX

Keywords: • Mechanical engineering • Scientific

This package is applicable whenever torsion vibrations propagate in a mechanical transmission system. VIBTOR determines the maximum amplitude of the torque along a multibranch transmission, activated by a diesel or similar alternative engine.

The package consists of four modules:

Keywords: • Aeronautics/aerospace • Mechanical engineering
• Signal processing • Structural engineering

Distribution medium: 9-track 1600 bpi magnetic tape.

This stand-alone, general-purpose time-series and spectrum-analysis program provides for signal analysis and structural-dynamic engineering. The modules of this system include vibration analysis, model analysis, animation, matrix operations (MATVAM), and nth octave analysis. Additional VAMP options include signal generation and data acquisition on systems that have compatible DAC and ADC equipment. This modular system is compatible with most graphics terminals and includes full graphic display and data management.

A version of this product is available for the VAX computer.

Price: \$6000 – \$20,000

Contact: R. D. Carignan
(408) 253-5800

SYNERGISTIC TECHNOLOGY INC.
20065 Stevens Creek Boulevard
Cupertino, CA 94087

VANGO

Operating System: RSTS

Keywords: • CAD/CAM • Civil engineering • Graphics
• Mapping

Distribution medium: magnetic tape.

VANGO is an easy-to-use interactive computer-aided design and drafting system for surveying, mapping, land development, civil engineering, and geographically based information. The system provides a tool for calculation, data management, and automated drafting, beginning with the boundary survey and proceeding through each phase of the project to final drawings.

VANGO performs the tedious, error-prone calculations involved in land planning. During the design process, computer-plotted drawings can be generated to show the current project status. Drafting on a high-speed plotter ensures clearer, more accurate drawings and reduces the time required to produce them. Changes are easily accommodated, since new drawings may be plotted on demand. The data created is preserved and fully utilized in all successive steps and is maintained on line.

The VANGO Digital Terrain Model (DTM) module, fully integrated with VANGO, is a highly advanced earthwork computational system. Volumes are computer based on a cell that is typically a $\frac{1}{8}$ "-square at plan scale. Elevation interpolation for determining the cell elevations

This system, written in FORTRAN, is a modification of the U.S. Bureau of Reclamation's program used to check concrete pipe joints, including the R4 type. More flexible than the original, USBRJT permits the revision of data as initially entered, which facilitates the investigation of new joint designs.

Data is entered in the sequence listed on the form required by the bureau. Nonapplicable items on the chart for the type of joint being investigated should be entered as zeros (0).

Price: \$125

Contact: J. Bill Wallace

(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56

Huntington Beach, CA 92647

Utility Routines for a PDP-11/45 with a Floating-Point Processor

Operating System: RSTS, RSX, RT-11

Keywords: • Assemblers • Calculation aids • Mathematics
• Software utilities

This set of routines for input/output, square root, and trigonometric and exponential functions are designed for convenient interfacing with assembly language main programs. The floating-point routines use AC0 to transmit the argument and operate in the precision of the calling program (single or double). The input/output routines are designed for flexibility. Thus, the floating-point input routine accepts both F and E format input and takes any nonnumerical character other than +, -, ., or E as a terminator. The F format output routine gives an E format output if the number is too large for the field specification.

The I/O routines are monitor-independent to provide maximum flexibility and eliminate the need to set up link blocks, file blocks, and so on. If desired, they could easily be interfaced into the DOS monitor.

Unlike most math routines, these routines use straightforward application of power series so that the user may control the precision. Timing and precision data are given as a function of the number of terms used. DECUS number 11-110.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

VAMP (Vibration Analysis and Measurement Processor)

Operating System: RSX, RT-11

UDAP (Urban Drainage Analysis Package)

Operating System: RSTS

Keywords: • Civil engineering • Flow analysis

Distribution media: 9-track 800/1600 bpi magnetic tape, RL02, TU58 DECtape II cartridge.

UDAP performs hydraulic analysis of classical urban storm-water pipe systems. Input data consists of size, shape, material, inverts, time of concentration, inlet area, runoff coefficients, and so forth. The output consists of relevant input data plus flow, velocity, and hydraulic grade line from each pipe in the system. A system with up to 1000 pipes can be analyzed.

A version of this product is available for the VAX computer.

Price: \$2500

Contact: Robert E. Branch, P.E.
(800) 368-4203

TECHNICAL INFORMATION SYSTEMS, INC.
116 W. Plume Street
Norfolk, VA 23510

Ultima

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

This program, written in FORTRAN, determines the required size and spacing of tensile reinforcement in concrete beams and slabs or walls with 1-way reinforcement, using the ultimate-strength design method. Beam dimensions, cover, moment, and thrust are required input. Reinforcement may be either W-series mesh or hot rolled rod.

Price: \$75

Contact: J. Bill Wallace
(714) 848-4405

COMPUTAPIPE
17610 Beach Boulevard, Suite 56
Huntington Beach, CA 92647

USBRJT

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

TTEST

Operating System: RSX, RT-11

Keywords: • Calculation aids • Mathematics • Statistics

Memory required: Less than 12K.

This FORTRAN program computes the t -statistics to evaluate the difference between two unpaired means. The user need only provide the mean, standard deviation (or standard error), and sample size of each of the two sample populations. In addition to the t -value, TTEST lists degrees of freedom and the corresponding 95% 1-tailed and 2-tailed critical t -values. TTEST has minimal input requirements and informative output that does away with table lookup. DECUS number 11-404.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

UCSMP: A General Dynamic Modeling and Simulation Program

Operating System: RSX

Keywords: • Simulation

Distribution medium: magnetic tape.

This program, written in FORTRAN, allows the user to model problems quickly in mathematical terms and to obtain solutions efficiently and economically. General areas of application include heat transfer, economics, chemistry, medicine, sales forecasting, liquid flow, and so forth. Discrete events and hybrid systems can also be modeled. FORTRAN statements and programmed functions can be used without the need for ordering the input statements. A preprocessor scans the input and orders the data for proper execution. Diagnostic messages for syntax errors, ambiguities, undefined parameters, and so forth are provided with other useful debugging information. Output variables are plotted as they are calculated. The user can see solution progress, avoiding unnecessary computation time due to improper input data or parameters.

A double-precision version of this program is available on the VAX machines only. Single precision is available on both VAX and PDP-11 machines. Floating-point hardware is required for those programs.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Carol Kunz

(505) 266-9622

BERNE ELECTRONICS, INC.

120 Dartmouth SE

Albuquerque, NM 87106

A version of this product is available for the VAX computer.

Price: \$3000 - \$60,000

Contact: Michael P. Hutchinson, Senior Systems Engineer
(813) 371-0811

FAIRCHILD WESTON

P.O. Box 3041

Sarasota, FL 33578

TPS-10 Finite Element System

Operating System: RSX

Keywords: • Mathematics • Mechanical engineering

This general-purpose finite element analysis program features linear statics, material nonlinearities and large displacements, dynamic response, heat transfer, and acoustics. Substructure analysis may be performed with structural, heat transfer, and acoustics problems.

The finite element library for TPS-10 includes beams (with optional offsets); triangular and quadrilateral membranes, plates, and axisymmetric rings (3 or 4 nodes); isoparametric, triangular and quadrilateral membranes, plates, and axisymmetric rings (6 or 8 nodes); solids — tetrahedron, wedge, and brick (4, 6, and 8 nodes); and isoparametric solids — tetrahedron, wedge, and brick (10, 15, and 20 nodes).

Loading in TPS-10 may consist of concentrated or distributed forces, pressures, temperatures, accelerations, and centrifugal loads. Factor-and-add combinations of load cases may be used to obtain design loads. In the case of axisymmetric models, nonsymmetric loading may also be applied. Many boundary condition specifications are available, including gaps and sliding friction.

Input to TPS-10 may be prepared in free or fixed format. Automated data stringing and mesh generation are included to reduce manpower requirements for input. The model data may be checked graphically, and output may also be plotted. Output plots include the deformed structure and contours of stress, displacement, or temperature.

A version of this product is available for the VAX computer.

Price: \$12,000 - \$20,000

Contact: Manny Velivasakis
(212) 889-3130

LEV ZETLIN ASSOCIATES, INC.

95 Madison Avenue

New York, NY 10016

Price: \$3000

Contact: Willy Claes
0415 61130

CENTRE DES TECHNOLOGIES NOUVELLES
Domaine du Sart Tilman, B26
B-4000 Liege
Belgium

TAPEIA

Operating System: CTS-300, IAS, RSTS, RSX, RT-11

Keywords: • CAD/CAM • Manufacturing
• Mechanical engineering

Memory required: 64K minimum.

This program reads a command file produced by the CODE program and resolves the locations of the circle commands of the size selected by the user. The drill/circle selection has two modes. The default mode, which is permanently set into the program, can be selected by the user prior to compiling. The interactive dialog asks the user how many circle sizes to search for and the diameter of those circles.

The output is a punched paper tape with a predetermined format. Multiple formats require multiple versions of this program. The tapes produced are in the standard EIA RS422 format. If an ASCII or an RS358 format is desired, the sister program TAPEAS is needed.

The TAPEIA program produces N/C drill tapes for printed circuit boards and for numerical control drills in a machine-shop environment, such as for tube sheet or bolt circles.

A version of this product is available for the VAX computer.

Price: \$500 - \$15,000

Contact: Dean Lampman
(513) 874-4499

STARFLO ENGINEERING
4740 A Interstate Drive
Cincinnati, OH 45246

TELEVNT/TELSET/TELDAX: Telemetry Acquisition and Reduction

Operating System: RSX, RT-11

Keywords: • Aeronautics/aerospace • Data collection
• Device drivers/handlers • Real time

This software consists of a device driver for a high-speed data acquisition, as a minimum, to a complete user-interactive system, which includes products that set up and control telemetry equipment and automatically store data on disk or digital tape.

SVD (Singular-Value Decomposition)

Operating System: CTS-300, RSX, RT-11, UNIX* (System III, System V, Version 7)

Keywords: • Mathematics • Research • Simulation
• Statistics

SVD determines the singular-value decomposition of a real m by n matrix A . That includes the inverse, determinant and rank of A , if $m = n$, or the pseudoinverse and rank of A , if $m \neq n$.

This FORTRAN program comes either as a subroutine, for calling from a main program, or as a user-friendly stand-alone program, for interactive terminal use. The latter program uses free-format FORTRAN-77-type extensions for interactive I/O. Telephone demos are available.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$250 - \$500

Contact: Dr. Joseph J. DiStefano III, Professor
(213) 825-7482 or 825-4033

UNIVERSITY OF CALIFORNIA, LOS ANGELES
School of Engineering and Applied Science
Biocybernetics Laboratory, 4731K Boelter Hall
Los Angeles, CA 90024

TABVAP (Water and Steam Table)

Operating System: CTS-300, RSX, RT-11

Keywords: • Chemical • Mechanical engineering • Scientific

TABVAP is a set of FORTRAN functions describing the properties of water and steam. The equation set is the version accepted by the members of the Sixth International Conference on the properties of steam, under the title "The 1967 IFC Formulation for Industrial Use." The programs are applicable for regions 1, 2, and 6 defined by the IFC.

- TK: Saturation temperature for a given pressure
- BK: Saturation pressure for a given temperature
- HVAP: Enthalpy for a given pressure temperature and water rate
- TVAP: Temperature for a given pressure and enthalpy
- SVAP: Entropy for a given pressure temperature and dryness fraction
- TITRE: Dryness fraction for a given pressure and temperature
- TFNTR: Temperature for a given pressure and entropy
- STITR: Dryness fraction for a given pressure and entropy

Precision of all results is compatible with the International Skeleton Table 1963.

Price: Available upon request

Contact: Robert Loesch

(203) 238-2351 ext. 352

CANBERRA INDUSTRIES, INC.

One State Street

Meriden, CT 06450

SURVEY (Data Reduction and Plotting for Surveyor's Field Data)

Operating System: RSTS

Keywords: • Civil engineering • Graphics • Mapping

Distribution medium: 9-track 800/1600 bpi magnetic tape.

This BASIC-PLUS program is used for reducing land survey field data to cartesian coordinates, including elevations. Data entry is very flexible, with user-friendly prompting. Location of a point may be by any valid combination of two measured distances or angles from one or two previously located points. Angles (in degrees or degrees-minutes-seconds) are measured from a compass direction or from the direction of any line segment. Rotations and corrections due to closure errors may be made automatically. Storage of coordinate values is maintained in a disk data file for easy updating.

Output includes distances, headings, elevation angles and distances, included angles, enclosed area, and a plot with numbered points. Plotting is done with a Printronix P-300 printer/plotter. Modifications for special purposes and for other printer/plotters are available at extra cost. Documented source code is provided so that the user may make modifications as well. While contracted product support is not available, the author will provide consultation about problems as time permits. The program was developed in consultation with a licensed surveyor.

Prerequisites include the RSTS/E operating system, BASIC-PLUS with double-precision and trigonometric functions, 31K user memory, and a Printronix P-300 printer or equivalent. A floating-point processor is desirable for better response time.

Price: \$500 - \$1000

Contact: John Burton, Director, Computer Center

(615) 475-9061

CARSON-NEWMAN COLLEGE

P.O. Box 1917

Jefferson City, TN 37760

SUPERDRAW

Operating System: RSX

Keywords: • Graphics • Mapping • Simulation

SUPERDRAW is a comprehensive 3-dimensional interactive model-displaying software system that reads data files from most finite element analysis programs — such as STRESS, STRUDL, TPS-10, and NASTRAN — and creates a model file. That model can then be displayed on a CRT, such as a VT100 with selenar board modifications, or an equivalent Tektronix CRT. The model can be rotated, scaled up or down, and segmented by the cross-hair cursor. Nodes and elements can be numbered. Deflected shape structures can also be displayed. The displayed model can then be sent to a plotter or a printer/plotter.

SUPERDRAW is extremely helpful to engineers in error checking and verifying finite element models.

The commands are in English, and extensive help features are available to the user at all levels.

A version of this product is available for the VAX computer.

Price: \$1000

Contact: Manny Velivasakis
(212) 889-3130

LEV ZETLIN ASSOCIATES, INC.
95 Madison Avenue
New York, NY 10016

Survey

Operating System: RSX

Keywords: • Data collection • Medical • Nuclear
• Scientific

Distribution media: magnetic tape, RL02.

This program provides a convenient method for recording and archiving radiological survey results. The data for each survey includes date and time, dose rates, survey instrument identification, location (building, elevation, room, position), air sample analysis results, surveyor, as well as a section for survey request information.

The menu-driven format allows easy file maintenance and report generation. The reports that are available include listings by location, type of survey, survey instrument, and activity level. File protection and backup are ensured by "1-button" archiving and operator password protection.

A version of this product is available for the VAX computer.

These general analysis FORTRAN programs for classical structural members with arbitrary mechanical or thermal loading are small, portable, efficient, and easy to use. The members can be of variable cross-section with any in-span supports, foundations, and boundary conditions. Composite cross-sections can be handled. The member can be modeled with either continuous or lumped mass. Static and steady-state displacements and forces, natural frequencies and mode shapes, and buckling loads are calculated. Pre- and postprocessors permitting interactive use of the programs are available. All the programs can be used in batch or interactive form with fixed, free, or prompted input formats.

- Beams: Deflection, slope, bending moment, shear force, buckling loads, frequencies, and mode shapes; can include bending, shear deformation, and rotary inertia effects
- Torsional systems: Angle of twist, twisting moment, and frequencies of shaft system
- Extension systems: Axial displacement, force, and natural frequencies
- Thick cylinder: Radial displacement, radial stress, tangential stress, and frequencies
- Torsion of thin-walled beams: Angles of twist, bimoments, warping shear, internal twisting, moments, unstable loads, and natural frequencies
- Sectional properties: Cross-sectional properties of a bar of any shape
- Stress analysis: The normal and shear stresses on the cross-section of a bar of any cross-sectional shape; the stresses include bending stresses, shear stress due to torsion and warping, shear stresses due to transverse loads, and normal stresses due to warping
- Rotating shafts: For a shaft with unbalance forces, calculation of the displacements, internal forces, and bearing forces; the critical speeds are found for damped or undamped shaft systems
- Circular plate: Deflection, slope, radial moment, shear transverse moment, twisting moments, and frequencies
- Rectangular plate: Static, steady state, stability, and free vibration
- Gridworks: Uniform grillages subjected to uniform, hydrostatic, and concentrated forces
- Disks: Radial displacement, radial force, tangential force, and frequencies

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: W. D. Pilkey

(804) 296-4906

STRUCTURAL MEMBERS USERS GROUP

P.O. Box 3958, University Station

Charlottesville, VA 22903

STRESS (Structural Engineering Solver)

Operating System: RSTS, RSX

Keywords: • Civil engineering • Structural engineering

Distribution media: 9-track 800/1600 bpi magnetic tape, RL02, TU58 DECTape II cartridge.

STRESS performs linear elastic analysis of statically loaded structures composed of prismatic members. STRESS solves for forces, reactions, and displacements, using the matrix stiffness method. The maximum structure size is 125 members and 250 joints.

A version of this product is available for the VAX computer.

Price: \$550 - \$850

Contact: Robert E. Branch, P.E.
(800) 368-4203

TECHNICAL INFORMATION SYSTEMS, INC.
116 W. Plume Street
Norfolk, VA 23510

STRESSGEN

Operating System: RSX

Keywords: • Mathematics • Mechanical engineering

STRESSGEN is an interactive program that is extremely helpful to the user of STRESS-11 and STRUDL. The program permits the user, through question and answer, to generate finite element models of skeletal structures in both two and three dimensions. The program has two levels of generation for nodes and elements. Supported nodes, member properties, releases, and loading cases are also handled by the program. Element lengths are automatically computed for geometry checking purposes and material takeoff. The program contains extensive error-checking routines with clear diagnostic messages. Program output is a file ready to run on either STRESS-11 or STRUDL.

A version of this product is available for the VAX computer.

Price: \$300

Contact: Manny Velivasakis
(212) 889-3130

LEV ZETLIN ASSOCIATES, INC.
95 Madison Avenue
New York, NY 10016

Structural Member Analysis Programs

Operating System: RSX

Keywords: • Aeronautics/aerospace • CAD/CAM
• Mechanical engineering • Structural engineering

Stress

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

This program, written in FORTRAN, determines the required size and spacing of tensile reinforcement in concrete beams and slabs or walls with 1-way reinforcement, using the working-stress design method. Beam dimensions, cover, moment, and thrust are required input. Reinforcement may be either W-series mesh or hot rolled rod.

Price: \$75

Contact: J. Bill Wallace

(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56

Huntington Beach, CA 92647

STRESS-11: A Structural Analysis Program

Operating System: RSX

Keywords: • Calculation aids • Structural engineering

Memory required: 64KB.

STRESS-11 is an engineering application program used to analyze forces, reactions, and displacements in structural designs. The program can be used to analyze building frames, bridge trusses, transmission towers, and floor systems. STRESS-11 requires no computer programming experience. Problem descriptions use engineering terms that are familiar to a structural engineer.

To use the package, the engineer describes a structure with a 2- or 3-dimensional coordinate system. The engineer assigns a joint number and joint coordinates to each joint in the structure, and a member number and member incidence identifies which two joints the member connects. The engineer then describes the physical properties of those members, the member and joint loads to be placed on the structure, and the support conditions for the structure. With that information, the program can determine the joint displacements, joint reactions, and forces for the structure. DECUS number 11-613.

Note: Source code may require patching to run on versions other than RSX-11M V3.2. Release notes are shipped with each order.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

DECUS number 11-271.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

STI-ANIMATION

Operating System: RSX

Keywords: • Decision support • Graphics
• Pre- and postprocessors

STI-ANIMATION allows for experimental or theoretical-mode shapes to be "action" animated. That postprocessing capability is helpful in engineers' assessments of dynamic situations.

A version of this product is available for the VAX computer.

Price: \$2000 - \$4000

Contact: Richard Carignan
(408) 253-5800

SYNERGISTIC TECHNOLOGY INC.
20065 Stevens Creek Boulevard
Cupertino, CA 95014

STI-MATVAM

Operating System: RSX

Keywords: • Aeronautics/aerospace • Mathematics
• Mechanical engineering • Pre- and postprocessors

This matrix-manipulation utility stores each matrix in a disk file in VAMP matrix-file format. That disk storage allows the processing of matrixes of almost any size. MATVAM also translates files generated by NASTRAN to VAMP matrix-file format and produces VAMP matrix files from a VAMP modal-analysis file. That capability permits the synthesis of analytically and experimentally generated information. The program runs through on-line commands that specify the matrix files and the operation. Runstreams of those command lines may be created to perform specific analyses.

A version of this product is available for the VAX computer.

Price: \$1000 - \$2000

Contact: Richard Carignan
(408) 253-5800

SYNERGISTIC TECHNOLOGY INC.
20065 Stevens Creek Boulevard
Cupertino, CA 95014

Square Root Routine for Integers

Operating System: RSTS, RSX, RT-11

Keywords: • Calculation aids • Mathematics

This PDP-11 assembly subroutine takes the square root of a 16-bit integer. The result, RO, contains both the integer and the fraction portion of the root, that is, with an implicit decimal point between RO<7> and RO<6>. DECUS number 11-345.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

SSP-11 (Scientific Subroutine Package), Version 1.3

Operating System: RSX, RT-11

Keywords: • Mathematics • Research • Scientific
• Statistics

Distribution media: 9-track 800/1600 bpi magnetic tape, RK05, RK06, RL01, RL02, RX01.

This collection of more than 100 mathematical and statistical routines commonly required in scientific programming is written in FORTRAN and contains no I/O statements. Many of the larger statistical routines are provided as a collection of several smaller routines, facilitating their incorporation in larger programs requiring overlays.

Refer to SPD #15.45.10 when requesting further information on this product from your local DIGITAL sales office.

Price: Available upon request

Contact: Consult your local DIGITAL sales office (see Introduction).

STAT-11: Statistical Package

Operating System: RSTS

Keywords: • Statistics

Memory required: 16K user space.

The manual for this easy-to-use package informs the user how to perform statistical analyses with STAT-11 and includes STAT-11 program examples.

The STAT-11 program and manual use the following conventions:

- Information typed in by the user at the keyboard has been underlined to differentiate the information from computer output.
- An asterisk (*) denotes multiplication, and an upward-pointing arrow (↑) denotes exponentiation in arithmetic expressions.
- A percent sign (%) before a number in STAT-11 output indicates only that the number has exceeded the normal output format in length. The value of the number is still correct.

SPLICE (Bolted Splice Design)

Operating System: RSTS

Keywords: • Civil engineering • Structural engineering

Distribution media: 9-track 800/1600 bpi magnetic tape, RL02, TU58 DECtape II cartridge.

SPLICE designs high-strength bolted splices for standard rolled beams and welded-plate girder sections (symmetrical about their major axis).

A version of this product is available for the VAX computer.

Price: \$200

Contact: Robert E. Branch, P.E.
(800) 368-4203

TECHNICAL INFORMATION SYSTEMS, INC.

116 W. Plume Street
Norfolk, VA 23510

SPSS-11™

Operating System: RSTS, RSX, RT-11

Keywords: • Data collection • Quality control • Scientific
• Statistics

SPSS-11 is an applications software package for tabulation, statistical analysis, and general-purpose data management. Although SPSS-11 is tailored to run on microcomputer architecture, it retains the powerful yet easy-to-use command structure and the data and file-handling features of its parent version. Highlights of its statistical capabilities include frequency distributions; breakdown analysis; cross-tabulation; Pearson, Spearman, and Kendall correlations; *t*-tests; scattergrams; multiple regression; analysis of variance; and survival and discriminant analysis. Data management facilities permit simplified handling of large files and subfile structures, as well as recoding of existing variables, creation of new variables, and selection, sampling, and weighting of specific cases. The SPSS-11 editor checks for SPSS command syntax as well as command order, without requiring job execution. Release 4.0 of SPSS-11 adds a report generator to customize formatted reports.

Price: \$3000 - \$6000

Contact: Susan Phelan
(312) 329-2400
SPSS INC.
444 North Michigan Avenue
Chicago, IL 60611

378 Engineering

Use of SKYMNK software and the array processor results in speed improvements of 20 to 200 times for numerically intensive applications.

Price: \$350

Contact: Joe Germann

(617) 454-6200

SKY COMPUTERS, INC.

Foot of John Street

Lowell, MA 01852

Span

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. **Distribution medium:** 8" diskettes.

This program, written in FORTRAN, computes the maximum safe spans for steel pipe, with lining coating, live loads, and internal water weights as optional input; the deflection at the center of the span; the bend radius and bend deflection angle; the moment and stress in the pipe wall; and, if the pipe is cement mortar lined, the size of lining crack in inches a foot. The program also permits users to enter trial span lengths for analysis.

Price: \$75

Contact: J. Bill Wallace

(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56

Huntington Beach, CA 92647

SPIPE (Circular Pipe Analysis)

Operating System: RSTS

Keywords: • Civil engineering • Flow analysis

Distribution media: 9-track 800/1600 bpi magnetic tape, RL02, TU58 DECtape II cartridge.

SPIPE computes the hydraulic elements for circular pipes. Input consists of pipe size, slope, roughness coefficient, and intervals desired. Output includes flow, velocity, area of flow, depth of flow, and so on. Gravity flow is considered.

A version of this product is available for the VAX computer.

Price: \$200

Contact: Robert E. Branch, P.E.

(800) 368-4203

TECHNICAL INFORMATION SYSTEMS, INC.

116 W. Plume Street

Norfolk, VA 23510

Once the conduit size is determined, new flows can be entered. For each flow entered, the depth, the critical depth, the cross-sectional area, velocity, open surface, and wetted perimeter are printed out. System options allow the user to quickly try new slopes, flow and ratios, and new diameters.

Price: \$75

Contact: J. Bill Wallace

(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56

Huntington Beach, CA 92647

SIZET

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

This system, written in FORTRAN, sizes or reviews trapezoidal and rectangular canals and channels, based on Manning's formula. To size, the user enters the slope and flow and the cross-sectional characteristics (shape) desired. Side slope, maximum allowable depth, or maximum allowable width are among the options allowed.

Once the canal shape and size is determined, new flows may be entered. For each flow entered, the depth, the critical depth, the cross-sectional area, velocity, open surface, and wetted perimeter are printed out. System options allow users to try new slopes, flows, and shapes quickly.

Price: \$100

Contact: J. Bill Wallace

(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56

Huntington Beach, CA 92647

SKYMNK Software Support

Operating System: RSX, RT-11, TSX-PLUS

Keywords: • Scientific • Signal processing • Simulation
• Software utilities

SKYMNK includes an on-line driver, a subroutine library, a software simulator, and test diagnostics. The subroutine library contains more than 70 routines that perform vector mathematics and routines for vector/scalar mathematics, conversion, clipping/bounding, vector comparison, and signal processing — for example, FFT, IFFT, and convolution/correlation.

This system, written in FORTRAN, sizes either full or partially full horizontal elliptical pipe or vertical elliptical pipe, based on Manning's formula. Users enter the required head in feet or PSI and the required quantity in cubic feet a second or million gallons a day. Manning's coefficient can be selected from a table of commonly used values.

Elliptical pipe is formed from circular sectors. Each size of elliptical pipe is designed to have a cross-sectional area approximately equal to a standard pipe. The diameter of the circular pipe is known as the equivalent diameter.

Standard dimensional relationships are used in the system. The degree of accuracy will be adequate for most work. However, those relationships can be overridden.

After entry of the slope, flow, and ratio of design flow/full flow, the program generates data for a theoretical equivalent diameter, and data is generated for the equivalent theoretical elliptical pipe. The user can then try new slopes or request adjustment of the theoretical ellipse to standard ASTM C507.

Once the conduit size is determined, new flows can be entered. For each flow entered, the depth, the critical depth, the cross-sectional area, velocity, open surface, and wetted perimeter are printed out. System options allow users to quickly try new slopes, flow and/or ratios, and modifications to control relationships.

Price: \$150

Contact: J. Bill Wallace

(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56

Huntington Beach, CA 92647

SIZEP

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. **Distribution medium:** 8" diskettes.

This system, written in FORTRAN, sizes either full or partially full circular pipe, based on Manning's formula. Users enter the required head in feet or PSI and the required quantity in cubic feet a second or million gallons a day. Manning's coefficient can be selected from a table of commonly used values.

After entry of the slope, flow quantity, and ratio of design flow/full flow, the program generates data for a theoretical circular pipe. The user then selects a standard pipe size, and a new set of hydraulic data is generated for the new pipe size.

Shaft calculates the dead-weight stresses due to the center of gravity of the shaft for steel shafts and does the resolution of complex forces into the single equivalent maximum tensile stress.

A version of this product is available for the VAX computer.

Price: \$500 - \$15,000

Contact: Dean Lampman
(513) 874-4499

STARFLO ENGINEERING
4740 A Interstate Drive
Cincinnati, OH 45246

SIZED

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Flow analysis
• Structural engineering

Memory required: 256K. Distribution medium: 8" diskette.

This system, written in FORTRAN, sizes either full or partially full box culverts, based on Manning's formula. Users can enter the required head in feet or PSI. Quantity can be entered in cubic feet a second or in millions of gallons a day. Manning's coefficient is entered as desired from a table of commonly used values. For full-flow conditions, the length of the line is required.

After entry of the slope, quantity of flow, ratio of height to width, and a ratio of design flow/full flow, the system generates data for a theoretical box. The user can then enter standard C789 box dimensions or other special dimensions. Haunch data can be included. The system then recomputes the hydraulic data.

Once the conduit size is determined, new flows can be entered. For each flow entered, the depth, the critical depth, the cross-sectional area, velocity, open surface, and wetted perimeter are printed out. System options allow users to quickly try new slopes, flows, and ratios.

Price: \$75

Contact: J. Bill Wallace
(714) 848-4405

COMPUTAPIPE
17610 Beach Boulevard, Suite 56
Huntington Beach, CA 92647

SIZEE

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Flow analysis
• Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

This system-dynamic analysis package is used to debug prototypes conveniently and efficiently by computer simulation. The mathematical representation of the system that SABBA creates can be analyzed to predict its natural frequencies and modes of vibration. Then, to help engineers understand the impact of changes to the product's physical properties, modifications can be made to the computer model and the impact of those changes automatically calculated in SABBA.

SABBA™ is a trademark of SDRC. SDRC® is a service mark of Structural Dynamics Research Corporation.

A version of this product is available for the VAX computer.

Price: \$20,000 or \$1100/mo

Contact: Marketing Services
(513) 576-2400

GENERAL ELECTRIC CAE INTERNATIONAL INC.
300 TechneCenter Drive
Milford, OH 45150

SERIES/PARALLEL (Equivalent Series/Parallel Pipe Solver)

Operating System: RSTS

Keywords: • Civil engineering

Distribution media: 9-track 800/1600 bpi magnetic tape, RL02, TU58 DECTape II cartridge.

This program computes equivalent conduit sizes and lengths for two or more conduits in series or parallel, using the Hazen-Williams equation.

Price: \$100

Contact: Robert E. Branch, P.E.
(804) 622-1755

TECHNICAL INFORMATION SYSTEMS, INC.
116 West Plume Street
Norfolk, VA 23510

Shaft: Stress Calculations

Operating System: CTS-300, IAS, RSTS, RSX, RT-11

Keywords: • CAD/CAM • Manufacturing • Mathematics
• Mechanical engineering

Memory required: 64K minimum.

This design-analysis program, written in MACRO, calculates the maximum resultant stress in a shaft when a set of loads is applied, such as those normally found on shafts on gearboxes or working shafts in machinery. The shaft may be round or tubular if there are torsional loads, such as on a gearbox or motor shaft, or square if there are no torsional loadings on the shaft.

SDRC® FATIGUE™

Operating System: RT-11

Keywords: • Civil engineering • Mechanical engineering

This software uses predicted and/or measured strain data and material property information to predict product life under various conditions. That kind of fatigue information can help engineers design products that meet stringent requirements for maximum life expectancy, energy efficiency, and cost effectiveness.

FATIGUE™ is a trademark of SDRC. SDRC® is a service mark of Structural Dynamics Research Corporation.

A version of this product is available for the VAX computer.

Price: \$8000 – \$20,000 or \$500 – \$900/mo

Contact: Marketing Services

(513) 576-2400

GENERAL ELECTRIC CAE INTERNATIONAL INC.

300 TechneCenter Drive

Milford, OH 45150

SDRC® MODAL-PLUS™

Operating System: RSX, RT-11

Keywords: • Data collection • Mechanical engineering
• Simulation

This interactive software package is used to collect, analyze, and display data from controlled excitation tests. In MODAL-PLUS, a physical model is vibrated by an exciter through a range of frequencies to test system dynamics. MODAL-PLUS software then creates a mathematical model of the prototype's performance. That model can be compared to an analytical model or used directly to solve noise, vibration, and failure problems.

MODAL-PLUS™ is a trademark of SDRC. SDRC® is a service mark of Structural Dynamics Research Corporation.

A version of this product is available for the VAX computer.

Price: \$14,000 – \$28,500 or \$1300 – \$2500/mo

Contact: Marketing Services

(513) 576-2400

GENERAL ELECTRIC CAE INTERNATIONAL INC.

300 TechneCenter Drive

Milford, OH 45150

SDRC® SABBA™

Operating System: RSX, RT-11

Keywords: • Debugging • Mechanical engineering
• Simulation

The Quality Assurance (QA) software package performs a calibration check of germanium (both Ge(Li) and HpGe) detectors. The software produces a quality assurance report that gives current values or current values and difference from reference values for germanium detector system gain shifts, germanium detector system resolution, and germanium detector efficiency.

Price: \$1275

Contact: David Martancik
(203) 238-2351

CANBERRA INDUSTRIES, INC.
One State Street
Meriden, CT 06450

S541/S641 APOGEE

Operating System: RSX

Keywords: • Data collection • Instrumentation • Nuclear
• Scientific

APOGEE collects and analyzes complicated Ge(Li) and HpGe gamma spectra. Written in FORTRAN IV/VAX-11, the software has been optimized for speed and employs a user-friendly, menu-driven format. Extensive help commands allow infrequent users to operate the software with minimal training. Command language operation is available for frequent users who prefer not to use the menu structure. Both immediate-mode and extensive batch-file operations are supported. Preprogrammed batch files permit job stream operation for routine laboratory applications. That feature allows tasks to be defined by system users and executed through simple commands.

Routines are included for calibrating the system, searching for peaks, calculating peak centroids, determining net areas, resolving multiplets, identifying nuclides, calculating specific activities for each unit of volume, minimum detectable activities, lower limit of activities, maximum permissible concentration, and iodine activity equivalency. The LLD calculation complies with the method defined by the U.S. Nuclear Regulatory Commission.

A version of this product is available for the VAX computer.

Price: \$5000 - \$9000

Contact: Steve Starbala
(203) 238-2351

CANBERRA INDUSTRIES, INC.
One State Street
Meriden, CT 06450

S240/S540 SPECTRAN-F**Operating System:** RSX, RT-11**Keywords:** • Instrumentation • Nuclear • Scientific

This set of FORTRAN programs performs sophisticated analysis of gamma-ray spectrographic data obtained from Ge(Li) or HpGe detectors. Routines are included for calibrating the system, searching for peaks, calculating peak centroids, determining net areas, resolving multiplets, identifying nuclides, and calculating specific activities, minimum detectable activities (MDA), maximum permissible concentrations (MPC), and E-bar calculations.

Price: \$2750**Contact:** David Martancik

(203) 238-2351

CANBERRA INDUSTRIES, INC.

One State Street

Meriden, CT 06450

S243/S543 NAA**Operating System:** RSX, RT-11**Keywords:** • Instrumentation • Nuclear • Scientific

The Canberra Neutron Activation Software Package consists of a well-defined set of subroutines formulated for the rapid and accurate analysis of neutron activation spectra collected with germanium detectors. Both comparative and absolute methods of analysis are supported. The package is written in standard FORTRAN IV.

The software is designed in a completely modular fashion to permit adaptation to a multitude of experimental sequences. The operator can run experiments in an interactive or a completely unattended and automatic environment. Routines are included for calibrating the system, searching for peaks, calculating peak centroids, determining net areas, resolving multiplets, identifying elements, and calculating element concentration.

Price: \$4000**Contact:** David Martancik

(203) 238-2351

CANBERRA INDUSTRIES, INC.

One State Street

Meriden, CT 06450

S245/S545 Quality Assurance Software**Operating System:** RSX, RT-11**Keywords:** • Instrumentation • Nuclear • Quality control
• Scientific

370 Engineering

Price: \$3000 – \$8000

Contact: AT&T Technologies Account Executive
(800) 828-UNIX

AT&T TECHNOLOGIES, INC.

P.O. Box 25000

Greensboro, NC 27420

S220 CANSCAN

Operating System: RT-11

Keywords: • Instrumentation • Nuclear • Scientific

CANSCAN is a set of BASIC programs for use in analyzing low-density waste containing ^{235}U and/or ^{235}Pu . Typical waste containers are 55-gallon drums and 5-gallon cans. Routines provide quantitative analysis, correction for density variations, and utility routines.

Price: \$5000

Contact: David Martancik
(203) 238-2351

CANBERRA INDUSTRIES, INC.

One State Street

Meriden, CT 06450

S235/S535 GAMMA-M

Operating System: RSX, RT-11

Keywords: • Instrumentation • Nuclear • Scientific

This software package performs rapid and accurate analysis of gamma spectra obtained with sodium (NaI) scintillation detectors. Routines are included for calibrating the system, searching for peaks, determining net areas, resolving multiplets, identifying nuclides, and calculating specific activities and minimum detectable activities.

The analytical approach that was developed for the ABACOS Body Burden software is used in the GAMMA-M package, which is written in FORTRAN. However, the nuclide libraries and the input/output orientation are toward general laboratory spectroscopy rather than toward a particular application.

Price: \$2500

Contact: David Martancik
(203) 238-2351

CANBERRA INDUSTRIES, INC.

One State Street

Meriden, CT 06450

RUCAPS (Really Universal Computer-Aided Production System)

Operating System: RSX

Keywords: • Architecture • CAD/CAM • Construction
• Graphics

This 3-D data base drafting system for architectural, construction, and HVAC industries permits a prototype of any building or plant to be assembled in the computer. The system provides 100% consistent production information in drawings, bills of materials, and specifications. Plus, RUCAPS can generate full 3-D visualization in hidden-line-removed form in the same model.

Price: £15,000 – £60,000

Contact: Murray Pearson
4427 5481

GMW COMPUTERS LTD.
Castle Mill, Lower Kings Road
Berkhamsted, Herts HP4 2AD
England

The S Language and System for Interactive Data Analysis

Operating System: UNIX* (Version 7)

Keywords: • Graphics • Mathematics • Statistics

S is an expression language. The user types expressions, which the S system interprets and evaluates. The expressions include, but are not limited to, conventional algebraic and functional expressions. Expressions are composed from operators and other special characters, such as plus, minus, and parentheses; from functions, such as log and mean; and from data, such as constants and named data sets.

Data in S is organized into named, self-describing data sets, which are kept in data bases and are retrieved automatically when named in an expression. The fundamental data structure is a vector, that is, a sequence of data values, such as numbers, logical values, or character strings. An unlimited variety of other data structures can be built up from vectors. Some structures are recognized by many functions in S — for example, matrices, arrays, and time series.

Fundamental to the philosophy of S is the uniformity of expressions and data structures. That uniformity leads to flexible, general data analysis. The value of any expression, however complicated, is a data structure, which includes anything from simple arithmetic to high-level statistical functions. Any expression can appear as an argument to an operator or a function. Of course, a particular function may generate an error if it cannot interpret the argument sensibly.

* UNIX is a trademark of AT&T Bell Laboratories.

REWALL (Retaining Wall Design)

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Mathematics
• Structural engineering

Distribution media: 9-track 800/1600 bpi magnetic tape, RL02, TU58 DECTape II cartridge.

REWALL designs cantilevered concrete retaining walls according to ACI code. Ultimate strength design is used. Input consists of wall height, trial toe, heel, and base dimensions; soil parameters; and steel and concrete constants. Output consists of final dimensions, sliding and overturning factors of safety, and reinforcing percentages required.

A version of this product is available for the VAX computer.

Price: \$400

Contact: Robert E. Branch, P.E.
(800) 368-4203

TECHNICAL INFORMATION SYSTEMS, INC.
116 W. Plume Street
Norfolk, VA 23510

RKLIN (Linear System Simulation: Runge-Kutta)

Operating System: CTS-300, RSX, RT-11, UNIX* (System III, System V, Version 7)

Keywords: • Biology • Mathematics • Research
• Simulation

This interactive FORTRAN program solves any set of n linear, constant-coefficient, or ordinary differential equations, where n is limited only by the host machine's memory capacity. Step (constant), impulse, and impulse-train inputs are provided as standard options. Other inputs can be easily implemented.

The algorithm is a variable-step, fifth-order Runge-Kutta procedure. Program input and output are self-explanatory. The user interactively enters the number of equations, input type, parameter values, and initial values of the n variables. Telephone demos are available.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$350 - \$750

Contact: Dr. Joseph J. DiStefano III, Professor
(213) 825-7482 or 825-4033

UNIVERSITY OF CALIFORNIA, LOS ANGELES
School of Engineering and Applied Science
Biocybernetics Laboratory, 4731K Boelter Hall
Los Angeles, CA 90024

Price: \$8000

Contact: M. Young, Office Manager
(613) 820-0606

B. G. YOUNG AND ASSOCIATES
P.O. Box 5745, Station F
Ottawa, Ontario K2C 3M1
Canada

RES 2 (Reservoir Routing)

Operating System: RSTS

Keywords: • Civil engineering • Environmental
• Natural resources

Distribution media: 9-track 800/1600 bpi magnetic tape, RL02, TU58 DECTape II cartridge.

RES 2 performs standard reservoir flood routing through multiple linear reservoirs. The maximum number of reservoirs is three. Source code (FORTRAN IV) is available.

A version of this product is available for the VAX computer.

Price: \$450

Contact: Robert E. Branch, P.E.
(800) 368-4203

TECHNICAL INFORMATION SYSTEMS, INC.
116 W. Plume Street
Norfolk, VA 23510

REVR4

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

This system, written in FORTRAN, checks type R4 joint designs for concrete pipe and is a modification of USBRJT, with the added feature of evaluating the use of available tolerances, based on the stretched gasket diameter. REVR4 will flag designs that have poor practical tolerance ranges, a feature not covered by USBRJT.

Price: \$125

Contact: J. Bill Wallace
(714) 848-4405

COMPUTAPIPE
17610 Beach Boulevard, Suite 56
Huntington Beach, CA 92647

final two values of the iterative weighted linear sum of least-squares calculations are tested for a convergence tolerance of 5.0%. DECUS number 11-469.

Restrictions: Regression cannot be performed for more than 50 data pairs.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

RES

Operating System: RSX, RT-11

Keywords: • Calculation aids • Documentation
• Process control • Simulation

RES removes the expensive and error-prone manual approach to equipment reliability calculations, by completely automating MIL-HDBK-217, "Reliability Prediction of Electronic Equipment." The program serves the design and development environment and is oriented toward modern equipment architectures — assembly, unit, subsystem, and system. Starting with a human-engineering screen format, the user inputs the basic part reliability drivers — typically environment, temperature, quality level, and stress. RES is then run on the user-created data file and provides the usual reliability indices of mean time between failures (MTBF) and probability of mission success $R(t)$.

For organizations whose products are reliability sensitive and for groups performing reliability assessments, RES allows equipment reliability simulation driven by environment, temperature, and part-quality changes. That leads to tradeoffs between competing factors and the all-important cost factor. Output from RES may be used for life cycle cost (LCC) work in determining logistics drivers and establishing maintenance factors.

RES resides on a single 8" floppy disk (a test demonstration disk is also supplied), which is loaded into the system. The user then creates a data file on a separate disk for the specific equipment of interest. Options are provided that, for example, calculate the percent failure rate for each part type and the leading highest failure rate parts. A simple language consisting of only five basic commands allows input processing and output control. Because of the 80-column screen format, identical hard-copy forms may be prepared and checked off and input to the computer system when convenient.

REGLACEM is a real-time operational closed package that allows easy programming of DDC control loops. The package works under a dedicated executive system and accepts modifications on site without reassembling. The programming language consists of an exact translation of the normalized analogical control loops networks.

Minimal configuration:

LSI 11-23/2 Multifunction Modules/1 EPROM Module
(KDF11) (MxV11) (MRV11)

Optional: TU58 / RXV211 / TELETYPE

Performances: Multitasks (REGLACEM or MACRO-11), tasks switching: 125 micro sec., and tasks cyclic (min 1 m sec) or on events

Price: Available upon request

Contact: Mr. Fontaine

(1) 362.26.09

CEM SYSTEMES SCAN

40 rue Jean Jaures

93176 Bagnolet

France

Regression Analysis for Michaelis-Menten Kinetic Data

Operating System: RT-11

Keywords: • Scientific • Statistics

Memory required: 30K virtual memory, 2K directed addressing memory for array storage.

This FORTRAN program calculates the Michaelis-Menton parameters V_m , the maximum velocity, and K_m , the substrate concentration at half-maximal velocity, and their 95% confidence ranges for the dependence of enzyme activity of substrate concentration in the absence of product. The program uses simple nonlinear regression, nonparametric statistics, unweighted linear regression, and iterative weighted linear regression. The program requests a selection of the type(s) of regression(s) to be performed, a file of substrate and rate data containing up to 50 data points, and an appropriate T -statistic.

The initial K_m bracket values for the nonlinear calculations are assumed to be $BRKM(1) = 0.0$ and $BRKM(2) = 10.0$. If that interval does not bracket the true K_m , $BRKM(2)$ is doubled until the appropriate bracket interval is obtained. Any negative V_m or K_m values generated by the nonparametric calculations are replaced by an arbitrarily large number ($1.0E + 6$) and entered into the sorting routine with the other smaller and nonnegative V_m and K_m values. The

364 Engineering

Price: Available upon request

Contact: G. E. Scott

(518) 374-1220

POWER TECHNOLOGIES, INC.

P.O. Box 1058

Schenectady, NY 12301

Rave

Operating System: RSX

Keywords: • CAD/CAM • Data conversion • Graphics

This raster-to-vector conversion software system converts raster data from a scanning input device to vector data compatible with most interactive graphics systems (CAD).

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: W. C. Schmidt

(215) 328-1040

BROOMALL INDUSTRIES, INC.

700 Abbott Drive

Broomall, PA 19008

RCPULT

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 356K. Distribution medium: 8" diskettes.

This system, written in FORTRAN, computes earth loads, compression as well as tension, and the resulting area of reinforcement for the RCP type of pipe and allows the input of internal pressure. Designers can use various concrete strengths, steel stress, and various covers to the centerline of the reinforcement.

Price: \$75

Contact: J. Bill Wallace

(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56

Huntington Beach, CA 92647

REGLACEM

Operating System: None required

Keywords: • Metals • Process control

This package of programs has been designed to use a DIGITAL PDP-11 minicomputer for use by engineering groups on a dedicated basis. The minicomputer is distinguished by its relatively small size and low price in relation to its central processor speed and by the use of a high-speed video terminal (CRT) for communication with users as they execute their calculations.

The following points illustrate the main computational characteristics of PSS/2P:

- The load flow solution may be executed by a nodal iterative (Gauss-Seidel), Newton-Raphson, decoupled Newton, or triangularized admittance matrix solution algorithm. The user selects the method, and the four methods may be interchanged at any time.
- The multiple unbalanced short-circuit calculation activity allows the user to apply simultaneously, at any bus, on any phase, the following combination of unbalances: single L-G fault, L-L or L-L-G fault, single phase closed, and double phase closed.

Price: Available upon request

Contact: G. E. Scott

(518) 374-1220

POWER TECHNOLOGIES, INC.

P.O. Box 1058

Schenectady, NY 12301

PSS/O-S (Power System Simulator for Operations)

Operating System: RSX

Keywords: • Electrical • Flow analysis • Simulation

This package of software modules is designed for use as a 200-bus power system operator's load flow. PSS/O-S enables the operator to quickly conduct studies of possible network switching actions, generation shifts, and so forth, using similar-condition base-case data with appropriate system-condition adjustments made.

PSS/O-S performs interactive AC load flow (full Newton), network topology determination, economic dispatch calculation, bus-load allocation of system load, and network-dependent penalty factor calculation. The largest power system model that can be simulated with PSS/O-S is 200 electrical nodes and 350 branches.

The power system operator's needs and customary methods were the guiding considerations during PSS/O-S's design and development. For example, transmission lines and transformers are placed in and out of service at the circuit breaker and switch level. When breaker and switch operations result in isolated equipment, system splitting, and so on, PSS/O-S detects and processes such conditions.

Project Time Management

Operating System: CTS-300, RSTS, UNIX* (Version 7)

Keywords: • Accounts receivable • Architecture • Billing
• Project management

This system for architects and engineers maintains records for each employee, client, project and project type, phase and task within a project, staff and departmental assignment, and activity performed by your firm. The system also records and posts each time, expense, and accounts receivable transaction by client and project; allows adjustment of work-in-process and billing amounts; prints detailed or summarized statements in several user-selected formats; and ages accounts receivable and unbilled time-and-expense transactions and prints valuable aging reports.

Your ability to manage projects depends on the amount and quality of your information. This system provides you with extensive management data as it collects and reports on project and staff activities on a month-to-date, year-to-date, and since-opening basis; analyzes billings and time-and-expense transactions; issues reports on productivity and profitability within project and staff types; and fully integrates with Alpine's Accounts Payable, Payroll, and General Ledger systems, enabling simplified 1-time entry of time-and-expense transactions.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$13,000 – \$18,000

Contact: Byron Wilkes, Marketing Manager
(503) 641-8100

ALPINE DATASYSTEMS, INC.
8043 SW Cirrus Drive
Beaverton, OR 97005

PSS/2P (Power System Simulator)

Operating System: RSX

Keywords: • Electrical • Flow analysis • Simulation

This integrated set of programs allows the power system engineer to execute load flow and short-circuit studies and to construct network equivalents in an interactive manner. Problems as large as 256 buses and 384 branches with 128 generator units can be processed. The calculation methods used in PSS/2P have been developed and proven by PTI as a result of research on computational methods and of application of those methods to various power system analysis studies.

Project Delta, Sections E and F: Additional Mathematics and Teacher Assistance

Operating System: RSTS

Keywords: • Education • Mathematics • Statistics

Memory required: Mostly under 8K.

Section E mathematics programs are as follows: GLPSA1 is a 2-phase simplex method of linear programming. TMFCEV performs time function evaluation (engineering applications). CALC is a calculator for numbers of up to 100 digits. CXEXP raises a complex number to a real or a complex power. GSIMEQ solves simultaneous linear equations. CXARTH performs vector arithmetic operations. POLY finds the polynomial to approximate a table of x - y data. POLFIT performs multiple regression/correlation analyses. FREQ finds a number of data points (frequency) within limits (data can be in a file or from a terminal). RANDOM generates random numbers with user-specified sample and population sizes. ANVAR3 computes analysis of variance table for a 2-way classification of variables design in which a single observation is made for each combination of levels. ANVAR4 computes analysis of variance table for a 2-way classification of variables factorial design with replicated observations. GANOVA computes analysis of variance table for a 2-way classification of variables (data is entered down columns). MULTX performs a least-squares curve fit to one of seven functions (operation is interactive at the terminal). POLSUB exercises students in polynomial subtraction operations. GINTLP solves linear programming problems with variables of values 1 and 0. SIPRAC exercises students in mathematical operations on signed numbers. KR20 performs item analysis and Kuder-Richardson formula 20. DE10R solves a first-order differential equation (Runge-Kutta). DE20R solves second-order differential equations (Runge-Kutta). SUNSET computes Greenwich Mean Time (or other time) for sunrise and sunset, given a particular week and a given latitude and longitude. WAVES plots the effects of changing wavelength, amplitude, and phase on two waves and their sum. SPCTRA plots optical absorption spectra of two species equilibrium mixtures. FACTRL produces any desired factorial and preceding factorials. SQRZ finds the square root of a complex number. BISQAR provides drill for students on squaring binomials.

Section F teacher assistance programs are as follows: AVERG1 averages and curves grades. GRADE, given the number of questions on a test, prints a list of percent score versus number of questions right or wrong. STAT performs statistical analysis of student grades. SCORES computes mean, standard deviation, and standard scores for student grades. DECUS number 11-152.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Price: \$100

Contact: J. Bill Wallace

(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56

Huntington Beach, CA 92647

PORT (Portable Mathematical Subroutine Library)

Operating System: Independent

Keywords: • Compilers • Debugging • Mathematics

PORT is a coordinated set of FORTRAN subprograms for numerical computation. The library is characterized by careful error checking and dynamic storage allocation and can be installed on minicomputers having an ANSI FORTRAN compiler with associated library facilities.

Price: Available upon request

Contact: AT&T Technologies Account Executive

(800) 828-UNIX

AT&T TECHNOLOGIES, INC.

P.O. Box 25000

Greensboro, NC 27420

Project Delta, Section B: Statistics

Operating System: RSTS

Keywords: • Calculation aids • Education • Scientific
• Statistics

Memory required: 8K.

Section B consists of the following programs: LNREG1 and LNREG2 perform simple linear regression calculations. BINOPO performs probability distribution comparisons. REGCOR performs regression and correlation analysis. CHISQ computes the probability of chi-square values. CHISQS performs chi-square statistics for $m \times n$ contingency tables. GEOMEN computes statistics of geometric distribution. PHICOE performs phi-coefficient calculations. CORMAT is a correlation matrix for n series of data. ANVAR1 and ANVAR2 perform analysis of variance. HISTOG produces histograms on the user terminal. RANDEV generates random deviates. STAT1 produces statistics on two groups of unpaired data, STAT2 is a Mann-Whitney 2-sample rank test, and STAT3 calculates Spearman rank correlation coefficients. DECUS number 11-6.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

- MISMAT allows users to generate bills of material for miscellaneous items, such as gaskets, loose flanges, and so forth.
- PTBEV prints a finished report on 8½" wide x 11" long pages of all bevelled pipe used on a particular project as produced by the LAYPIP program.
- PTLAY prints the pipeline-laying schedule produced by LAYPIP.
- PTLAY2 prints a laying schedule from data produced by LAYPIP and computes and prints alternate stationing and elevations for any other reference plane.
- PTSUM reads the data produced and stored by LAYPIP and retrieves all the pipe items and stores them sequentially in a temporary file that is then sorted according to pipe type, class, length, and so forth.
- REVFIL is an editing program for LAYPIP files that edits existing files, changes pipe descriptions, resequences pipe numbers, and adds, revises, or deletes comments and outlets.
- PTCCL prints a sequential listing of all cylinder cut lengths from the LAYPIP files.
- PTELL produces a finished report of all elbows on a project. The program reads the LAYPIP design file for all elbow fittings, groups them according to their number of cuts, and prints all data needed to prepare detailed drawings.

Price: \$6500

Contact: J. Bill Wallace
(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56
Huntington Beach, CA 92647

PLDATA

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. **Distribution medium:** 8" diskettes.

This program, written in FORTRAN, helps users organize pipeline layout data. Users can take off data by types, such as VPIs, HPIs, class changes, outlets, equations, and so forth. After all entries are made, the program sorts them by sequential station and provides an organized listing of design conditions. The program computes slopes and deflection angles at VPIs as well as elevations at equations, if the equations are between VPIs.

Price: \$150

Contact: J. Bill Wallace
(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56
Huntington Beach, CA 92647

PIPCOS

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

This series of systems, written in FORTRAN, can be used for engineers' estimates. These systems are designed to produce costs for standard production runs on a project-by-project basis. Various kinds of pipe can easily be estimated and include prestressed concrete pipe, reinforced concrete pipe and steel pipe, mortar lined and coated, and so forth. PIPCOS features an easy section to control raw material costs such as cement, sand, gravel, steel, and so forth. Those costs can be quickly updated when new prices are received.

Price: \$125

Contact: J. Bill Wallace
(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56
Huntington Beach, CA 92647

Pipeline Layout #6000

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Project management
• Software utilities • Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

This system, written in FORTRAN, includes 14 programs that are linked to produce the following results:

- CHECK allows users to easily check existing LAYPIP files for errors.
- HCROFF computes staking information for horizontal curves (radial), based on deflection method for curve layout.
- HCROF2 is identical to HCROFF except that the staking information is related to the alternate stationing, such as the trench bottom, rather than the actual pipe stationing.
- LAYPIP computes laying schedules for pipelines.
- LISTER permits users to print smaller areas of LAYPIP files without having to print the entire file.
- MERGPf merges two pipe files into a single file.

This program requires floating-point hardware and FORTRAN-77.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Carol Kunz, Director of Marketing
(505) 266-9622

BERNE ELECTRONICS, INC.

120 Dartmouth, S.E.

Albuquerque, NM 87106

Outlet

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

This program, written in FORTRAN, is a reinforcement design of outlets according to the AWWA *M11 Steel Pipe Manual*. Outlet advises the user if the run pipe or outlet is not thick enough, notifies the user of the maximum pressure allowed if no reinforcement is required, directs the user to the wrapper, advises the user if the crotch plate is required, gives reinforced collar size and weight, gives overall size of reinforced plate and weight, and permits the user to select an alternative steel thickness.

Price: \$100

Contact: J. Bill Wallace

(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56

Huntington Beach, CA 92647

Paris

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Project management

• Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

This program, written in FORTRAN, is based on equations given for the various cases outlined in Roark. Pipe weight, water weight, variable width, vertical loadings, bedding reactions, and lateral loads that are variable in width and magnitude are possible. Supposedly, lateral reactions do not occur because of pipe weight or water weight.

Output may be in coefficient form, or the actual pipe sizes, wall thicknesses, and cover loads can be entered and the critical forces determined for a specific installation.

This program, written in FORTRAN, computes offset stations and equations for pipelines that are to run parallel to a survey line. For example, sometimes two pipelines may be in the same trench with the survey line running between the two pipelines.

Price: \$100

Contact: J. Bill Wallace
(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56
Huntington Beach, CA 92647

OLANDR

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. Distribution medium: 8" diskette.

This program, written in FORTRAN, can determine for any given angle of bedding the moments, thrusts, and shears for any point on the wall due to pipe weight, water weight, and cover loads. Forces are assumed to act radially, based on the assumption that tangential forces are minor. Therefore, the loading pattern is used extensively in the design of prestressed pipe and C361 pipe.

Price: \$150

Contact: J. Bill Wallace
(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56
Huntington Beach, CA 92647

OPTAN (Optical Systems, Evaluation, and Analysis)

Operating System: RSX

Keywords: • CAD/CAM • Scientific

Distribution medium: magnetic tape.

This interactive optical analysis program is designed for ray-tracing complex multiple imagery, including nonrotationally symmetric aspheric systems. Two glass catalog data bases — Schott and Ohara — are provided for easy access and changes of glass parameters. Nonstandard parameters may also be entered. Systems of up to 48 surfaces may be analyzed, and up to fifth-order aberrations can be calculated for nominal, minimum, and maximum wavelengths. Output can be obtained for surface-by-surface ray data; paraxial marginal and principal ray heights and angles at the surfaces; upper and lower rim-ray heights at each surface for relative vignetted apertures, for three relative field positions; and any general skew ray for specified object and pupil coordinates.

NONLIN (Nonlinear Least-Squares Curve-Fitting Program)

Operating System: IAS

Keywords: • Calculation aids • Mathematics • Statistics

Memory required: 70K user partitioned.

This program allows the user to estimate the coefficients of a non-linear equation such as $Y = A/(x + B)^2$ and $Y = A \times B = C$. An iterative technique is used; the estimates at each iteration are obtained by Marquardt's Maximum Neighborhood Method, which combines the Gauss (Taylor Series) Method and the Method of Steepest Descent.

Since numerous forms of equations can be used, the user must specify the form by providing a subroutine to compute the values of the equation's coefficients. In addition, the user must provide a control card, a format card for reading data, and estimates of the starting values of the coefficients.

The output of the program is a printed report that includes a description of the problem, the starting values of the coefficients, the size of the incremental steps, a summary of each iteration, and a summary of the final fit (in terms similar to those in the Linear Least-Squares Curve-Fitting Program, DECUS number 11-419). The statistics calculated include the number of observations and coefficients, the residual degrees of freedom, the maximum and minimum values of the dependent variable as well as its range, the standard error and t -value for each coefficient, the residual sum of squares, the residual mean square, and the residual root mean square.

Provisions are made to run multiple programs as well as different equations using the same data. The program as dimensioned (70K) will handle up to 20 variables and 170 observations. Information is given in the program listings on which dimensions to change in order to reduce the overall dimensions or to increase either the number of variables and/or the number of observations the program will handle. DECUS number 11-420.

Note: A DECsystem-10 version is available as DECUS number 10-258.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Offset

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

Network

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Flow analysis • Simulation
• Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

This interactive program, written in FORTRAN, carries out regular simulations of steady-state pressure and flow in pipe distribution systems transporting liquids. In addition, extended period simulations can be carried out. Peak demands, such as fire demands through certain nodes, can be analyzed within the simulation period.

Price: \$1200

Contact: J. Bill Wallace

(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56

Huntington Beach, CA 92647

NEUPAN (Neutral Point Analysis)

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Flow analysis
• Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

This system, written in FORTRAN, can be used to determine moments, thrusts, and shears in circular pipes and rings as well as shapes that derive from the circle but that are not uniform in wall thickness. Although the neutral-point method requires that the structure be symmetrical, loadings do not have to be symmetrical. However, nonsymmetrical loadings have not been applied to the system.

Applications include a study of the redistribution of stresses after corrosion by hydrogen sulfide, the study of a pipe with a concrete bedding assumed to act integrally with the pipe wall, and the study of a modified circular pipe with a flat base and a flattened invert. Structures are, of course, not limited to pipes. Tunnels, pressure vessels, tubes, and such can also be analyzed.

Price: \$300

Contact: J. Bill Wallace

(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56

Huntington Beach, CA 92647

- Comparisons of all data for validity, specification, and internally generated X-R statistics for normalcy. Reporting on any out-of-control or out-of-specification situations, with material disposition feedback, is provided.
- Maintenance of running statistics for update of standards for cycle times, scrap and rework rates, yields, and data.
- Easy selection and reporting of data. Powerful statistical analysis capabilities include regression and correlation.

Custom versions of the system are easy to define and install, and modification and expansion are simple.

A version of this product is available for the VAX computer.

Price: \$35,000 – \$75,000

Contact: Brian Taylor
(617) 263-3408

MICROPRODUCT TECHNOLOGY SOFTWARE, INC.
945 Concord Street
Framingham, MA 01701

NDTRAN2

Operating System: RSTS

Keywords: • Interpreters • Research • Simulation
• Source code control

Memory required: 28K.

NDTRAN2 is a dynamic simulation interpreter capable of carrying out dynamic and stochastic simulations. It is available in two basic versions: a research version that accepts a source simulation program of up to 4000 statements and a standard version that can execute programs somewhat larger than WORLD3 and that operate on a computer with a 28K FORTRAN batch partition.

The standard version is available in a double-precision version or a single-precision version, depending on the requirements of the computer at the installing college or university. All versions sent to installations with PDP-11 computers are single precision, requiring the half-word integer option.

The source program for NDTRAN2 is approximately 13,000 statements in length, of which about 8000 are COMMENT cards, which constitute the basic documentation for the NDTRAN interpreter. The COMMENT statements in the main program NDTRAN contain parameters that must be set for the installation computer. DECUS number 11-512.

Note: Source program includes extensive documentation in the form of 8000 comment statements.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

The software is used for modeling MOS transistor characteristics and is a companion to SIMIC MOS Integrated Circuit CAD program. The SPICE MOS 3 MODEL is also supported. The package contains three routines that measure transistor I-V data through the IEEE 488 bus, extract and optimize model parameter values, and display measured and simulated I-V curves for visual comparison.

Parameter optimization is carried out within user-set search boundaries. The menu-driven software is interactive to allow control over the parameter extraction process. The model provides an accurate representation of MOS device behavior, including short and narrow channel effects, drift velocity saturation, nonuniform impurity profiles, channel length modulation, and parasitic series resistance effects. The program is structured to allow other device model sub-routines to be installed, if required.

A version of this product is available for the VAX computer.

Price: \$9750

Contact: Allan Silburt, Technical Specialist
(613) 836-3134

MOSAID INC.

P.O. Box 13579

Kanata, Ontario K2K 1X6
Canada

MTS-50

Operating System: RSX, RT-11

Keywords: • Process control • Production control
• Quality control • Shop floor control

MTS-50 is a process and product engineering evaluation and control system for industries that manufacture semiconductors, printed circuit boards, and complete integrated electronic products. The system assists engineering in process control, equipment control, and yield improvement.

This relational data base system includes:

- Work-in-process material tracking and the display of process specifications or operator instructions, as well as the ability to enter comments at each data entry station.
- Several levels of data — in wafer, wafer to wafer, lot to lot or components, boards, subassemblies, and so on, with roll up to higher levels — are handled.
- The definition of all data, units, scale multiplier, valid limits, and specification limits. The system can also perform calculations on data and treat the calculated values as original data.

Minimumtour: Minimum Path Routines**Operating System:** RT-11**Keywords:** • Mathematics**Memory required:** 12KW.

These routines derive an optimal path through a set of coplanar points and return a sequence of integers that represents ordinal point identifiers, the points having been given as sequences of coordinates. The derived path is "nearly optimal" in the sense that if it is not the shortest possible, it will not be significantly longer.

Note: NBS Pascal compiler pass .SAV files and NBS Pascal support library .OBJ files (included with program) are required to compile and execute the Pascal version. The FORTRAN version can be run with standard DIGITAL software. The program must be modified if required to solve a problem of more than 20 nodes. DECUS number 11-599.

Price: \$5 - \$225**Contact:** DECUS (see Introduction)**MOFI****Operating System:** RSTS, RT-11**Keywords:** • Civil engineering • Structural engineering**Memory required:** 256K. **Distribution medium:** 8" diskettes.

This program, written in FORTRAN, determines the areas, centers of gravity, moments of inertia, and section moduli for irregular sections, such as prestressed T-beams, L-beams, and hollow core slabs. The sections may be all linear elements defined by coordinate points, as well as elliptical and circular elements and slots with circular ends. Results are given for both axes.

Price: \$175**Contact:** J. Bill Wallace

(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56

Huntington Beach, CA 92647

MOSFIT (MOS Transistor Model Parameter Extraction Package)**Operating System:** RSX, RT-11**Keywords:** • CAD/CAM • Electronic • Research
• Simulation

Distribution media: magnetic tape, RX02, TU58 DECTape II cartridge.

MCSIM is a FORTRAN program for evaluating parameter estimation accuracies and related sample statistics for a given model with given data error statistics, by computer simulation of multiple experiments. The user provides the model and data statistics in a FORTRAN subroutine and standardized format. Program output is highly readable and user friendly.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$500 – \$1000

Contact: Dr. Joseph J. DiStefano III, Professor
(213) 825-7482 or 825-4033

UNIVERSITY OF CALIFORNIA, LOS ANGELES
School of Engineering and Applied Science
Biocybernetics Laboratory, 4731K Boelter Hall
Los Angeles, CA 90024

MINIMOVIE.BYU

Operating System: RSX

Keywords: • Architecture • Graphics • Mathematics
• Pre- and postprocessors

The MINIMOVIE system consists of FORTRAN programs that facilitate the display and manipulation of data representing mathematical or architectural models whose geometry may be described in terms of polygonal elements. The source of the polygonal element data is often a finite element or finite difference analysis.

The programs work in harmony to provide perspective displays in line drawing and/or continuous-tone image format; clip and cap 3-dimensional finite element systems to expose internal surfaces; modify geometry, displacement, and/or scalar function files by way of correction, differencing, appendage, or symmetry operation; and generate new models or title representations.

The MINIMOVIE system is a 16-bit version of MOVIE.BYU and features a disk-resident data base that allows the processing of large models on a small machine.

Price: \$500 – \$1000

Contact: Dr. Bruce J. Nay
(801) 378-2903

BRIGHAM YOUNG UNIVERSITY, CIVIL
ENGINEERING DEPARTMENT
368 CB
Provo, UT 84602

prompts for the minimum, maximum, and increment pressure and for the percent of yield to be used for design purposes. M11 PIPE computes the appropriate cylinder weights and collapse pressures as well.

Price: \$100

Contact: J. Bill Wallace

(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56

Huntington Beach, CA 92647

MBP (Metal Building Program)

Operating System: RSX

Keywords: • Civil engineering • Graphics • Metals
• Structural engineering

Distribution media: 9-track magnetic tape, RL02, RX01, TU58 DECtape II cartridge.

MBP, a computer program to optimize the design of preengineered metal building systems, has a unique mode of operation. Initially, the program operates until the lightest frame that meets the AISC code is obtained. Then, MBP displays a summary of the design results and presents a choice of options that allow the user to see pictures of the deflected shapes or to change the plate dimensions and reanalyze the frame, and so on. The automatic user-controlled mode of operation allows tailoring of the frame to the user's needs.

The program features multiple-span multistory frames; tapered built-up members; concentrated, distributed, and temperature loads; forced displacements; elastic supports; self-weight calculations; plots of the undeflected geometry, deformed shapes, and internal stresses; user-specified plate library; true free-format input; and extensive data checking and comprehensive error-condition reports.

A version of this product is available for the VAX computer.

Price: \$3000 - \$5000

Contact: Arturo Durand

(213) 398-3106

INTERNATIONAL STRUCTURAL ENGINEERS, INC.

P.O. Box 241740

Los Angeles, CA 90024

MCSIM (Monte Carlo Simulation)

Operating System: CTS-300, RSX, RT-11, UNIX* (System III, System V, Version 7)

Keywords: • Biology • Mathematics • Research • Statistics

Multiple dependent variables are fitted one at a time, and multiple forms of specified linear equations can be fitted with one data loading. DECUS number 11-419.

Note: A DECsystem-10 version is available as DECUS number 10-257.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Loads

Operating System: RSTS, RT-11

Keywords: • Calculation aids • Civil engineering
• Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

This system, written in FORTRAN, has four options for computing external loads on pipe:

- The first option uses Marston's method to compute trench earth loads on rigid conduits, loads for various heights of cover, and the transition widths and loads.
- The second option uses Marston's method to compute positive-projecting earth loads on rigid conduits. The transition width is also computed for each height of cover. The system advises the user if the design is complete or incomplete.
- The third option computes live loads on underground conduits in which loads, such as truck wheels, are transmitted through the soil in accordance with the Boussinesq solution for stress distribution for a semiinfinite elastic solid.
- The fourth option computes earth loads on rigid conduits for various heights of cover, based on the USBR method.

Price: \$125

Contact: J. Bill Wallace

(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56

Huntington Beach, CA 92647

M11 PIPE

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

This system, written in FORTRAN, computes the wall thickness of steel pipe in accordance with Chapter 6 of the AWWA *M11 Steel Pipe Manual*. The design can be based on the ID or the OD of the pipe. The type of steel can be selected from a standard menu, or the input of any steel can be entered as well as the minimum yield. The program

transmission length. After the printed LDAT network documentation package and analysis has been evaluated, the particular revision level is frozen, and build or rework tapes can be generated.

LDAT is a proven system for supporting digital design tasks. Features for wire wrap prototype and production include electrical network analysis; a powerful near-optimal path router for routing signals for minimum lengths; fixed, via, and twisted pair strings; automatic change order and revision control; channel or airline routing; direct interfaces for fabrication of discrete or printed wiring boards; and direct interfaces for logic simulation and test pattern development.

A full interactive graphics front end is available; see SDM (Symbolic Drawing Machine).

Price: \$15,000

Contact: John Thorne

(818) 884-8957

CADMATICS®

21907 San Miguel Street

Woodland Hills, CA 91364

Linwood (Linear Least-Squares Curve-Fitting Program)

Operating System: IAS, RSX

Keywords: • Data conversion • Graphics • Mapping
• Statistics

Memory required: 32K for 32K user partition.

This program allows the user to transform data into an appropriate form. The program fits specified equations to the transformed data by linear least-squares and provides both statistics and plots to aid in evaluating the fit. A $C(p)$ -statistic search technique determines if smaller sets of the variables will represent the data equally well. The transformations available to the user include reciprocals, sums, differences, products, quotients, logarithms, and exponentials.

In addition to the usual statistics, the program calculates the maximum and minimum value of each variable as well as its range, the relative influence of each variable, and the weighted squared standardized distance of each observation from the centroid of all observations.

The program, as dimensioned, handles up to 35 before transformations, 10 after, and 200 observations. Program change cards are included to allow a computer center to also offer two other programs — one that handles up to 105 variables before transformations, 80 after, and 1000 observations; and the other that handles up to 65 variables before transformations, 40 after, and 1000 observations.

thermal units to meet the forecasted load and system constraints. The program observes the following constraints: unit minimum up and down times and minimum and maximum generating limits, on-line and off-line reserve requirements, must-run and must-out units, units on fixed generation, changes in unit generating limits and capacity, transfer limitation between areas in the system, total system reserve, minimum reserves for areas in the system, unit response rate, and fixed-schedule purchases and sales.

Price: Available upon request

Contact: G. E. Scott

(518) 374-1220

POWER TECHNOLOGIES, INC.

P.O. Box 1058

Schenectady, NY 12301

Lambert Geodetic Conversion

Operating System: RSTS

Keywords: • Civil engineering • Data conversion

Distribution media: 9-track 800/1600 bpi magnetic tape, RL02, TU58 DECtape II cartridge.

This program converts geodetic longitude and latitude values to state plane coordinates and vice versa. Input is interactive or from COGO files. Source language is BASIC or FORTRAN.

A version of this product is available for the VAX computer.

Price: \$350

Contact: Robert E. Branch, P.E.

(800) 368-4203

TECHNICAL INFORMATION SYSTEMS, INC.

116 W. Plume Street

Norfolk, VA 23510

LDAT (Logic Design Automation Terminal)

Operating System: RSX

Keywords: • CAD/CAM • Electronic • Simulation

LDAT is used with a semiautomatic wire wrap machine to define, capture, and control complex logic network designs from conception through large-scale manufacture and test. The system can improve engineering productivity as much as two or three times, and overall project development time can be vastly reduced.

LDAT maintains a complete library of design elements (ICs) and their associated parametric data. New ICs may be added with ease with the data base editor. The input logic network is analyzed for electrical interconnection rule violations, loading errors, and signal

mathematical and statistical special functions; nonparametric statistics; observation structure and multivariate statistics; regression analysis; sampling; utility functions; vector and matrix arithmetic; and zeros and extrema, linear programming.

Substantial price discounts are available for universities.

A version of this product is available for the VAX computer.

Price: \$2000 – \$2500

Contact: IMSL Marketing Division
(713) 772-1927

IMSL, INC.
NBC Building
7500 Bellaire Boulevard
Houston, TX 77036-5085

INSCAL

Operating System: RSX

Keywords: • Instrumentation • Inventory • Quality control

Distribution media: magnetic tape, RL02.

This FORTRAN program tracks and reports calibration dates for instruments and equipment in the data base. Instruments are categorized by such key characteristics as manufacturer, model number, serial number, date of purchase, and date of last calibration. The reports and listings allow users to schedule and use their calibration facilities efficiently.

Human interfacing is achieved through a built-in, menu-driven format and simple English dialog. File maintenance is provided to allow easy updating and editing of the data base.

A version of this product is available for the VAX computer.

Price: \$15,000

Contact: Robert Loesch
(203) 238-2351 ext. 352

CANBERRA INDUSTRIES, INC.
One State Street
Meriden, CT 06450

IUC (Interactive Unit Commitment)

Operating System: RSX

Keywords: • Electrical • Scheduling • Simulation

This program determines a thermal unit commitment schedule that satisfies the system operating constraints and minimizes the resultant total cost. The total cost includes fuel and time-dependent start-up costs and maintenance and labor charges. Starting from a set of initial unit status, the program determines when to start and shut off

344 Engineering

Price: \$13,000 – \$20,000

Contact: Consult your local DIGITAL sales office
(see Introduction).

ILS/SKY

Operating System: RSX

Keywords: • Scientific • Signal processing • Simulation

This integrated signal-processing software has been programmed to take advantage of the SKY Computers, Inc., Micro Number Kruncher (SKYMNK) array processor. A comprehensive set of high-level interactive programs allow the user to begin performing signal-processing operations without programming.

The ILS/SKY software takes advantage of the high-speed array processor for doing Fast Fourier Transforms (FFT) and other types of vector operations, thereby enhancing the performance of signal-processing operations. The programs allow data scanning and manipulation, digital filtering, signal modeling (parameter estimation), spectral analysis, 3-dimensional displays, and more. Also included are extended signal-processing operators for addition, multiplication, magnitude, phase wrapping and unwrapping, FFT and inverse FFT, autocorrelation, cross-correlation, convolution, coherence, and spectral density.

Price: \$9000

Contact: Brian Montgomery
(805) 683-3771

SIGNAL TECHNOLOGY, INC.
5951 Encina Road
Goleta, CA 93117

IMSL Library

Operating System: IAS, RSTS, RSX, RT-11

Keywords: • Mathematics • Programming tools • Statistics

These FORTRAN subroutines are building blocks in the development of application programs. One hundred thousand users at more than 2000 installation sites worldwide use the more than 540 mathematical and statistical subroutines to increase programming productivity. IMSL fully supports the Library with maintenance and updates. IMSL runs on the RSX-11M, RSX-11M-PLUS, RSX-11D, and RSTS/E operating systems.

Applications include analysis of variance; basic statistics; categorized data analysis; differential equations, quadrature, and differentiation; eigensystem analysis; forecasting; econometrics, time series, and transforms; generation and testing of random numbers; interpolation, approximation, and smoothing; linear algebraic equations;

Note: Requirements to run this program are floating-point hardware and FORTRAN-77.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Carol Kunz, Director of Marketing
(505) 266-9622

BERNE ELECTRONICS, INC.
120 Dartmouth, S.E.
Albuquerque, NM 87106

ILS (Interactive Laboratory System)[™]

Operating System: RSX, RT-11

Keywords: • Medical • Scientific • Signal processing

This comprehensive set of FORTRAN programs investigates signals and their properties. Those signals may be EKG traces, heart sounds, sonar signals, speech sounds, seismic pressure waves, radar reflections, and so on.

The software handles both real and complex data and supports functions such as addition, multiplication, magnitude, hard and soft limiting, phase wrapping and unwrapping, FFT and inverse FFT, autocorrelation, cross-correlation, convolution, spectral density, coherence, and moving or exponential averaging to reduce the variance of the estimates. The ILS programs allow data scanning and manipulation, spectral analysis, and pattern analysis/recognition. The software operates in an interactive or batch mode and includes graphics.

ILS contains a standard set of file structures, including sampled data, analysis, record, and label files, which in combination can store and access numerous data types. The file conventions permit the efficient transfer of information from one program to the next and enhance the transportability of data and programs among installations.

ILS permits numerous graphical operations, such as scaled data displays, multiple calibrated data displays with user-defined grid options, scatter plots with principal component-analysis options, and 3-D displays of spectra and spectral models.

DIGITAL distributes this software product under license from Signal Technology, Inc., 5951 Encina Rd., Goleta, CA 93117.

Refer to SPD #A0.19.02 when requesting further information on this product from your local DIGITAL sales office.

ILS (Interactive Laboratory System)[™] is a trademark of Signal Technology, Inc.

A version of this product is available for the VAX computer.

system performs an on-line CAM rule check and a true display of the final artwork. Technology-related commands include resistor, ohm/square, capacitance, film volume, and more.

Other features include parametric cells; built-in circle, arc, and alphanumerics; BASIC-like commands that allow the user to define his/her own design rule; and user-definable points equal to 10^{14} . The system automatically creates file documents. Session dialog is preserved in instruction files. Graphic information is saved in drawing files.

The system updates pick a menu so that only related commands and keywords will be shown. Further, the system checks for violation of user-definable minimum feature size.

The package supports a hard-copy unit to dump graphic/text information from screen, a data tablet, a modem, color graphics/text display, a drum plotter, a digitizer, a color printer/plotter, a camera, a half-inch magnetic tape drive, and a paper tape puncher.

A version of this product is available for the VAX computer.

Price: \$5000 - \$30,000

Contact: Nancy Wang, Assistant Manager
(617) 891-9829

COMPUTER GRAPHICS
22 College Farm Road
Waltham, MA 02154

I/LOGIC (Interactive Logic Simulation)

Operating System: RSX

Keywords: • CAD/CAM • Diagnostics • Simulation

Distribution medium: magnetic tape.

This interactive program for simulation of digital logic circuits allows the engineer to check out logic designs prior to breadboarding. The user can input data for each logic block, run the simulation, make modifications, and store the problem on data files. The problem can then be retrieved from disk files, edited, and rerun as desired. Timing diagrams are printed at the terminal, thus allowing the user to check designs quickly. The program can handle certain logic blocks: RS, JK, T, D, 1-shot, and flip-flop; AND, NAND, OR, NOT, and XOR gates; buffers and inverters, with or without delays; and programmable switches and clocks.

All gates allow up to eight inputs, and all signal complements can be obtained by using the negative of the signal desired. A macro command is available for definition and repeated use of special functions in a simulation. Initialization of all blocks, variable waveform inputs, and race condition checks are also provided.

Price: \$300

Contact: J. Bill Wallace

(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56

Huntington Beach, CA 92647

I/CAP (Interactive Electronic Circuit Analysis Program)

Operating System: RSX

Keywords: • CAD/CAM • Electronic • Simulation
• Text management

Distribution medium: magnetic tape.

This revised and augmented interactive version of the IBM ECAP/360 program enables data to be input by using the full ECAP formats, as specified in the ECAP manuals. In addition to ECAP/360 features, I/CAP provides full 50-node, 200-branch capability; a conversational, easy-to-use interactive free-format input language; a built-in text editor; selected output control; graphics output; and stored subcircuit models.

Note: This program requires floating-point hardware and FORTRAN-77.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Carol Kunz, Director of Marketing

(505) 266-9622

BERNE ELECTRONICS, INC.

120 Dartmouth, S.E.

Albuquerque, NM 87106

ICLAYOUT

Operating System: RSX, RT-11

Keywords: • CAD/CAM • Electrical • Graphics
• Manufacturing

ICLAYOUT is a CAD/CAM software package for designing and manufacturing masks for integrated circuits, hybrid circuits, discrete devices, and so on. The package features extensive on-line design and editing capability. The user may define the fill density and named cells and their subsequent manipulation as single entities. The user may also zoom or pan to any magnification. Plus, multiple step and repeat, rotation, and mirror reflection serve any angle, including fraction of a degree. A powerful cut command removes features within specified boundaries. The system will display on command digitizing grid points, center coordinates, resolution, and scale. The

Hoop

Operating System: CTS-300, IAS, RSTS, RSX, RT-11

Keywords: • CAD/CAM • Calculation aids • Manufacturing
• Mechanical engineering

Memory required: 64K minimum.

This program, written in MACRO, calculates hoop stress for long pressure vessels or pipe, using the standard hoop stress formula given in the American Society of Mechanical Engineers Pressure Vessel Code. The three variables are thickness of the material, allowable tensile stress, and internal pressure. When any two of the three variables are supplied, the third variable is then calculated.

A version of this product is available for the VAX computer.

Price: \$500 - \$15,000

Contact: Dean Lampman
(513) 874-4499

STARFLO ENGINEERING
4740 A Interstate Drive
Cincinnati, OH 45246

HSULF (Hydrogen Sulfide)

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

This system, written in FORTRAN, enables the user to determine the life of a concrete sewer line that is subjected to corrosion by hydrogen sulfide. Three types of input are used: program constants, which can be reviewed and altered; sewage characteristics, which are assumed to be constant throughout the system; and data for each uniform run of the line, such as changes in quantity flow, I.D. of pipe, and the grade. Sections flowing full can be evaluated as to buildup. Up to 100 sections with 4 flows a section can be evaluated.

Because of the large number of entries, a means of correcting each block of data is provided as the information is entered. Users can run SIZEP to determine line diameters prior to running the system. In addition, the size and the sulfide content of any flow entering the pipe system must be determined before running the program. That includes the initial sulfide content of the sewage at the beginning of the sewer line.

Output for each reach of pipeline includes initial and final sulfide concentration and life expectancy as well as velocity, time of passage, quantity, and depth of flow.

Price: \$700

Contact: Gene Thayer, P.E.
(800) 368-4203

TECHNICAL INFORMATION SYSTEMS, INC.
116 W. Plume Street
Norfolk, VA 23510

HEC 2: Backwater Profiles

Operating System: RSTS, RSX

Keywords: • Civil engineering • Flow analysis

Distribution media: 9-track 800/1600 bpi magnetic tape, RL02, TU58 DECTape II cartridge.

HEC 2 computes the backwater surface profile for channels of any cross section for either subcritical or supercritical flow conditions. The effects of bridges, culverts, and weirs may be considered in the computations. Capabilities are available for assessing the effects of channel improvements, levees, and floodways on the water surface profiles. Input may be in either English or metric units.

A version of this product is available for the VAX computer.

Price: \$950

Contact: Gene Thayer, P.E.
(800) 368-4203

TECHNICAL INFORMATION SYSTEMS, INC.
116 W. Plume Street
Norfolk, VA 23510

Holes

Operating System: CTS-300, IAS, RSTS, RSX, RT-11

Keywords: • CAD/CAM • Graphics • Manufacturing
• Mechanical engineering

Memory required: 64K minimum.

This program, written in MACRO, creates bolt hole patterns from user-defined input specifications. Prompts are for bolt pattern radius, bolt hole radius, starting angle (where the first hole is to appear relative to the x-axis), tapped or counterbored holes, and if counterbored: radius, counterbore line type (hidden lines may be selected for counterbore).

A version of this product is available for the VAX computer.

Price: \$500 - \$15,000

Contact: Dean Lampman
(513) 874-4499

STARFLO ENGINEERING
4740 A Interstate Drive
Cincinnati, OH 45246

This program, written in FORTRAN, uses a systems approach to determine the Waterhammer pressure-time history in a simple or complicated network of closed circular pipes for any abnormal operation. The flow and head are solved for each node point at the end of each time increment. The dynamic equilibrium and continuity equations are transformed and expressed in finite difference form, using a fixed space-time grid.

Price: \$350

Contact: J. Bill Wallace
(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56
Huntington Beach, CA 92647

HBOLTS

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

This program, written in FORTRAN, determines the stress in bolts used for harnessing pipe joints, such as the type in section 19.8 of the *AWWA M11 Steel Pipe Manual*. Users can select the coarse-thread series or the fine-thread series such as ASTM A-307 Grade 1 or ASTM A-325 Grade 5 or may enter data for any bolt desired. Users may have the program compute the number of bolts required or may enter the number of bolts desired.

Price: \$150

Contact: J. Bill Wallace
(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56
Huntington Beach, CA 92647

HEC 1: Runoff Hydrographs

Operating System: RSTS, RSX

Keywords: • Civil engineering • Flow analysis

Distribution media: 9-track 800/1600 bpi magnetic tape, RL02, TU58 DECTape II cartridge.

HEC 1 performs a variety of runoff hydrograph computations, including manipulations of station and basin rainfall and snow data, calibration of rainfall/snowmelt/runoff models, and river-routing models. HEC 1 also computes stream system flood hydrographs and economic evaluations of basin modifications and structural effects. Input and output may be in either English or metric units.

A version of this product is available for the VAX computer.

GROUSE generates ground surfaces from random spot height survey data and displays surfaces as contoured plans, sections, and perspective views. Input includes digitized site boundary and spot height data. Users can interact with displayed results to modify surfaces, and the program calculates consequent cut-and-fill requirements.

GROUSE includes additional facilities to superimpose objects such as buildings or vegetation on a ground form and to obtain area values, density of objects within an area, linear distances, and slope conditions. GROUSE applications continue to be developed to meet particular user needs. The emphasis is on congenial user interaction.

The system, written in C, requires any computer that runs full UNIX* V7, SIII BSD 4.1, or commercially available versions such as XENIX or UNITY. Current smallest configurations include DIGITAL's LSI-11/23 microprocessor with 22-bit addressing, with at least 256Kb memory and 10Mb hard disk, plus back-up media. Available hardware includes more powerful Motorola 68000-based microcomputers, such as the Plessey System 68, at similar cost.

Peripherals include a raster graphics terminal, such as the Westward GT1015 or GT2015; a graphics plotter, such as the Hewlett-Packard 7221 (A3) or 7580/5 (A1/0); a digitizer, such as the TD HR-48 or Summagraphics ID-36; and a dot matrix or daisywheel printer. Equipment can be obtained independently of software; consulting services are offered on selection, purchase, and commissioning of equipment.

The data base management system supplied works efficiently on small computers, can be used for other computing applications, and allows adding applications functions. Included error trapping and recovery functions protect users from accidental loss of files.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: £10,000

Contact: Aart Bijl

44-(031) 667 1011 ext. 4598

EDCAAD, DEPARTMENT OF ARCHITECTURE

University of Edinburgh

20 Chambers Street

Edinburgh EH1 1JZ

United Kingdom

Hammer

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Flow analysis
• Project management • Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

336 Engineering

The products feature automated collection and display of statistics and interactive debugging facilities. User-written FORTRAN sub-routines may be called from the model for special applications, including graphics displays or animated traces of system behavior.

Prices vary, depending on the computer system. Educational discounts are available. Full documentation is included. Several excellent textbooks describing GPSS and its applications are available from publishers, and several institutions offer short courses on the use of GPSS.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$750 – \$6000

Contact: David Martin

(519) 679-3575

SIMULATION SOFTWARE LTD.

760 Headley Drive

London, Ontario N6H 3V8

Canada

Grid

Operating System: CTS-300, IAS, RSTS, RSX, RT-11

Keywords: • CAD/CAM • Graphics • Mapping

Memory required: 64K minimum.

This program, written in MACRO, creates equally spaced lines parallel to the x- and/or y-axis from user-specified minimum and maximum values, and then the output file generated is rotated, if desired. The output file is then drawn on the plotter as a reference scale, as a background for charts, or as an overlay for an existing drawing to grid complex points for digitizing.

A version of this product is available for the VAX computer.

Price: \$500 – \$15,000

Contact: Dean Lampman

(513) 874-4499

STARFLO ENGINEERING

4740 A Interstate Drive

Cincinnati, OH 45246

GROUSE Ground Modeling System

Operating System: ULTRIX-11, UNIX* (Version 7)

Keywords: • Architecture • Civil engineering • Mapping

Price: Available upon request

Contact: J. Robinson

(201) 893-2910

COMBUSTION ENGINEERING SIMCON, INC.

400 Broadacres Drive

Bloomfield, NJ 07003

GIFTS (Graphics-Oriented Interactive Finite Element Time-Sharing System)

Operating System: RSX

Keywords: • CAD/CAM • Data base management • Graphics
• Pre- and postprocessors

Distribution medium: magnetic tape.

This graphics-oriented collection of programs operates on a standard data base. Designed to fit in a relatively small core area, these programs are specifically suited to time-sharing and minicomputer systems. GIFTS may be used as a stand-alone finite element package or as a pre- and postprocessor for other systems. GIFTS' capabilities include model generation and display; generation and display of load and boundary conditions; displacement and stress display; static analysis; substructuring; vibration-mode analysis; transient-response analysis; retrieval of numerical information; error detection; Lagrange multipliers; solid-model generation, display, and analysis; axisymmetric solids under arbitrary loading; program interfaces; thermal stress analysis; highly flexible input; and a double-precision option.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Susan Lewis or Dr. Kamel

(602) 621-6129

UNIVERSITY OF ARIZONA

AME Department, Building 16, Room 204

Tucson, AZ 85721

GPSS (General-Purpose Simulation System)

Operating System: IAS, RSTS, RSX, UNIX* (Version 7)

Keywords: • Materials handling • Scheduling • Simulation
• Transportation

GPSS is a block diagram-oriented simulation language that facilitates development of simulation models of discrete systems, such as queuing systems or traffic flow systems. Used in industrial engineering, GPSS is preferred for the teaching of simulation. Application areas include manufacturing systems, computer communication networks, transportation networks, mining operations, and many others.

GEARW

Operating System: CTS-300, IAS, RSTS, RSX, RT-11

Keywords: • CAD/CAM • Manufacturing
• Mechanical engineering • Metals

Memory required: 64K minimum.

This program, written in MACRO, calculates gear wear according to A.G.M.A. specification and provides a tabulated summary. GEARW provides an accelerated design process and quick calculations from user data input. For both the pinion and the gear, the user specifies the diameter, face width, Brinnell hardness number, material type (1 for steel, 2 for cast iron), pinion r/min, and stage number. The GEARW program applies to any process involving design and/or analysis of gear performance.

A version of this product is available for the VAX computer.

Price: \$500 - \$15,000

Contact: Dean Lampman
(513) 874-4499

STARFLO ENGINEERING
4740 A Interstate Drive
Cincinnati, OH 45246

GEPURS™ (General Purpose Real-Time Software)

Operating System: RSX

Keywords: • Chemical • Computer-aided instruction
• Process control • Simulation

This block-structured simulation language for developing models of process and utility plants and their subsystems can simulate any industrial process dynamically and in real time. Models built with GEPURS software are used for checking out control strategies, for tuning loops, and for training operators, engineers, and other personnel in all levels of plant operations.

GEPURS offers configuration through a CRT console using a fill-in-the-blank format, dynamic reconfiguration using CRT displays, dynamic tuning (no compiling and no source programs to update), tabular displays and graphic plots that monitor simulated process variables for testing a model during integration, dynamic control over model execution time, selective activation and deactivation of any portion of the model, and the ability to provide an emulated instrumentation interface or to be hard-wired to any analog or digital instrumentation.

GEPURS software is used with PROGRES™ training simulators produced by C-E Lummus.

Price: \$250

Contact: Bill Manos, Product Manager
(415) 372-7568

NICOLET COMPUTER GRAPHICS DIVISION
P.O. Box 3020
777 Arnold Drive
Martinez, CA 94553

Functional Subroutines

Operating System: RSX, RT-11

Keywords: • CAD/CAM • Device drivers/handlers • Graphics
• Presentation aids

The Functional Subroutines package for Zeta plotter software is a set of FORTRAN subroutines compatible with Zeta's Fundamental Plotting Subroutines. The Functional Subroutines provide the capability of plotting frequently used patterns, such as arrowheads, dimension lines, shaded polygons, and bars for business charts. Also included are routines for logarithmic scaling and axis notation.

A version of this product is available for the VAX computer.

Price: \$250

Contact: Bill Manos, Product Manager
(415) 372-7568

NICOLET COMPUTER GRAPHICS DIVISION
P.O. Box 3020
777 Arnold Drive
Martinez, CA 94553

Gasket

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

This program, written in FORTRAN, was developed for the design of ring gaskets used on USBR R2-type joints (Carnegie spigots) and USBR R4 concrete joints. The program also has an option to size the groove ring for R4-type joints.

Price: \$75

Contact: J. Bill Wallace
(714) 848-4405

COMPUTAPIPE
17610 Beach Boulevard, Suite 56
Huntington Beach, CA 92647

FLASH can simulate circuits of various logic families, including TTL, CMOS, and ELC, and can handle device complexities from SSI to MSI to VLSI. The software package includes an approximately 450-device library that can be maintained by the user.

Price: \$35,000

Contact: Mike Masula

(602) 242-6300

THREE PHOENIX CO.

21639 N. 14th Avenue

Phoenix, AZ 85027

FLGTHK

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

This program, written in FORTRAN, computes the thickness of flat-face flanges and permits the use of various design stress limits and line pressures.

Price: \$75

Contact: J. Bill Wallace

(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56

Huntington Beach, CA 92647

FPS (Fundamental Plotting Subroutines)

Operating System: RSX, RT-11

Keywords: • CAD/CAM • Device drivers/handlers • Graphics

Zeta plotter software, Release 5.3, is intended for use with Zeta intelligent plotters and controllers. Available for most major mainframes, the subroutines are readily convertible to any standard FORTRAN. BASIC versions are also available.

This set of fundamental routines is designed to achieve full compatibility with the basic industry standards as well as to make full use of the features built into Zeta's intelligent controllers. The routines can be divided into two categories: industry-standard subroutines and Zeta's extended subroutines.

A version of this product is available for the VAX computer.

Price: £15,000

Contact: J. Palfreyman

0252 544321

SOFTWARE SCIENCES LTD.

Abbey House, 282/292 Farnborough Road

Farnborough, Hampshire GU14 7NB

England

EXP1234 (Exponential Model Fitter)

Operating System: CTS-300, RSX, RT-11, UNIX* (System III, System V, Version 7)

Keywords: • Biology • Mathematics • Simulation
• Statistics

This interactive FORTRAN program sequentially provides weighted least-squares fits of time-series data to sums of one, two, three, and four exponential functions, with a tabular analysis of the quality of all fits, using several statistical criteria — residual tests, F-ratio tests, information criterion tests, and correlation matrices. Five options for entering measurement error variances are provided, with three choices for data weighting. The nonlinear regression algorithm is a second-order gradient search scheme. Program input and output are highly readable and user friendly. Telephone demos are available.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$350 — \$750

Contact: Dr. Joseph J. DiStefano, Professor

(213) 825-7482 or 825-4033

UNIVERSITY OF CALIFORNIA, LOS ANGELES

School of Engineering and Applied Science

Biocybernetics Laboratory, 4731K Boelter Hall

Los Angeles, CA 90024

FLASH (Fault Logic and Simulation Hybrid)

Operating System: RSX

Keywords: • Diagnostics • Simulation

FLASH is a fault logic simulation software package used to simulate digital circuits. The user prepares a network list and test input stimuli file. The simulator then exercises the digital circuit and displays various output data — nodal movement, fault coverage (S-A-1, S-A-0, open input faults, 1-shot faults, and adjacent pins or runs faults), fault dictionary diagnostics, good simulation truth table for design verification, and test vectors to run on digital testers.

European MINC Package #7 — Instruments

Operating System: RT-11

Keywords: • Graphics • Instrumentation • Mapping
• Scientific

The following is a brief description of the programs:

- TRANEV/EXFIEV — Processor of data collected from Rockland FFT 512/S spectrum analyzer
 - ANALOG to PLOG, TEXPLO, and ACHS — Collection of programs to use HP-7225 plotter, by means of IEEE interface
 - INFARED spectroscopy application program; acquire data from a Perkin Elmer 225; draw the spectrum on a VT105 plot on chart recorder
 - MCIMS 1 — Enables MINC to transfer from a SOLATRON IMS-3510 master unit
 - VOLTS — Control of a power supply that does not contain IEEE interface, using an HP-3495A scanner
 - ACQR — Monitoring and control of a 3-phase machine
 - GR 1688 — Program support for measuring all components of GR-1688 manual: Digibridge GENRAD type GR 1688/IEEE
 - MINC — BASIC and FORTRAN IV support of the Tektronix 7612D digitizer
 - JOYCE-LOEBL — Disk centrifuge application program HP-7225A plotter (or similar)
 - GAMMA counters — Real-time on-line data acquisition program
 - RHODE and SCHWARZ NGPU — Power supply support package
- DECUS number 11-578.

Price: \$5 — \$225

Contact: DECUS (see Introduction)

EWSG (Electronic Warfare Scenario Generator)

Operating System: RSX

Keywords: • Electronic • Scientific • Signal processing
• Simulation

EWSG provides a unique capability to simulate complex electronic environments resulting from scenarios input by an operator, as seen at a receiver. The system includes a model of a receiver system whose characteristics can also be defined by the operator and permits performance analysis of that receiver in the specified environment.

EWSG applies mainly to the defense industry and is aimed at electronic warfare systems designers and integrators.

A version of this product is available for the VAX computer.

Price: \$100

Contact: J. Bill Wallace

(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56

Huntington Beach, CA 92647

ETS11-M

Operating System: RSX

Keywords: • Aeronautics/aerospace • Automotive
• Mechanical engineering • Petroleum

ETS11-M is a hardware/software system designed to control engine testing and to collect test information. The system includes the means of providing continuous operation to scan in input information from the engine; scan out control information directly to the engine or indirectly through hardwired controllers; process input data for subsequent use — for example, linearization, filtering, derived values; perform direct digital control and other conventional 3-term control algorithms; and monitor the input/output values against alarm limits.

Those facilities can be achieved either through an ETS11-M sequence list, in which the user describes the engine test steps, using ETS11-M FORTRAN subroutines, or through the operator display console, which provides a complete array of commands for controlling the test environment. The operator console can also display static or dynamic status information, as well as alarm and message information — all in user-defined format.

ETS11-M is designed to control one or more engine test stands, with the following configuration:

- Host system: For support of test sequence preparation and storage and storage of collected data for subsequent processing
- Subsystem: One for each engine test bed, which will perform the functions of data collection, logging, DDC control, alarm monitoring, operator interaction, and test sequence execution

Price: \$25,000

Contact: Ullrich Pelda

089/9591-1142

DIGITAL EQUIPMENT GMBH

Freischutzstrasse 91

8000 Munchen 81

West Germany

ELAN-TR (Transient Radiation)

Operating System: RSX

Keywords: • Electrical • Graphics • Nuclear • Simulation

Distribution medium: magnetic tape.

This easy-to-learn but powerful nonlinear analysis program is designed for both the beginner and the experienced user. ELAN-TR features easy-to-use input language and prompts; complete nuclear radiation effects analysis; high-resolution graphics output presentations; a large semiconductor data bank containing approximately 300 devices; linear transconductance models for Beta, Mu, Gm, and Zm; automatic storage and retrieval of problem data from disk files; user-defined FORTRAN equations for additional modeling flexibility; support for users by experienced engineers and computer specialists; interface for further circuit and reliability analysis, using the ELAN-AC and ELAN-REL programs; availability of a semiconductor data library (ELAN-LIB) and an interactive program for calculating diode and transistor parameters (ELAN-MOD); and additional FORTRAN equations to increase the possible range of analyses.

Note: This program requires floating-point hardware and FORTRAN-77.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Carol Kunz, Director of Marketing

(505) 266-9622

BERNE ELECTRONICS, INC.

120 Dartmouth, S.E.

Albuquerque, NM 87106

Elbow

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. **Distribution medium:** 8" diskettes.

This program, written in FORTRAN, allows users to design and compute fabrication dimensions for mitered elbows. The program computes the combined angle if the horizontal and slope angles for each leg are entered. Any elbow can be designed by entering any angle for the horizontal and setting the slopes to zero. Field top rotations for elbow ends, check dimensions, and shipping dimensions are also generated.

special calculations; sensitivity, worst-case, and Monte Carlo analyses and simulations, with histogram plots; and coupled tolerances and distributions between elements for realistic simulations of element variations.

ELAN-AC can automatically linearize operating point parameters from previous ELAN-TR or ELAN-REL program analysis. Data from operating points is automatically obtained from previous analyses and inserted as data to ELAN-AC.

A semiconductor data library (ELAN-LIB) and an interactive program for calculating diode and transistor parameters (ELAN-MOD) are available.

Note: This program requires floating-point hardware and FORTRAN-77.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Carol Kunz, Director of Marketing
(505) 266-9622

BERNE ELECTRONICS, INC.
120 Dartmouth, S.E.
Albuquerque, NM 87106

ELAN-MOD (Transistor and Diode Modeling Program)

Operating System: RSX

Keywords: • Electrical • Simulation

Distribution medium: magnetic tape.

This interactive program calculates diode and transistor parameters for ELAN programs. The user enters data from measurements and/or from a manufacturer's data sheets. ELAN-MOD uses default values when the user does not have appropriate parameter data. ELAN-MOD then calculates the parameters required for ELAN. The user can check, modify, and recalculate parameters until suitable model data is obtained.

Note: This program requires floating-point hardware and FORTRAN-77.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Carol Kunz, Director of Marketing
(505) 266-9622

BERNE ELECTRONICS, INC.
120 Dartmouth, S.E.
Albuquerque, NM 87106

and manufacturing 3-dimensional components. The VAX version has a number of advanced features, including smoothly shaded color pictures and IGES and UDA standard interfaces.

A version of this product is available for the VAX computer.

Price: £17,000 – £30,000

Contact: E. B. Lambourne

(021) 327-3401

DELTACAM SYSTEMS

Argyle Street

Birmingham B75TH

United Kingdom

ECAP

Operating System: RT-11

Keywords: • Electrical

Memory required: 16K minimum.

ECAP is a useful tool for analyzing and designing inductor, capacitor, and resistor networks of 25 or fewer branches and 10 or fewer nodes. The basic electrical element is the branch, which must include, at most, one passive element, which may be a resistor, a capacitor, or an inductor. This branch may also include a current source, a voltage source, or a transconductor (a voltage-controlled current source). As all the operator inputs are position-free, the program is still very useful to the electrical engineer who is a novice at computer programming. DECUS number 11-126.

Restrictions: OTS complex divider \$DVC error.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

ELAN-AC

Operating System: RSX

Keywords: • CAD/CAM • Electrical • Simulation

Distribution medium: magnetic tape.

This interactive AC analysis program is for circuit designers who need a comprehensive analysis tool. ELAN-AC can analyze large circuits and provide information about circuit performance, including gain, phase shift, input and output impedances, y-parameters, and group delay.

ELAN-AC features include 100-node, 300-branch capability; built-in models for resistors, capacitors, inductors, mutual couplings, independent and dependent generators, transistors, FETs, and OP-amps; user-defined FORTRAN equations for complex modeling and other

Price: \$250 - \$1000

Contact: Dr. W. E. Schiesser, R. L. McCann Professor
(215) 861-4264

LEHIGH UNIVERSITY
Whitaker Laboratory No. 5
Bethlehem, PA 18015

DUCT (Design Using Computer Techniques)

Operating System: RSX

Keywords: • Aeronautics/aerospace • Automotive
• CAD/CAM • Mechanical engineering

This powerful tool for computer-aided engineering enables a designer to develop a complete surface definition of an object for analysis or to provide manufacturing information. Developed as a design system, DUCT is best used to turn a design concept into a full surface model. Used in that manner, the designer can control and retain details of any modifications.

DUCT helps design engineering castings and moldings and is used to program numerically controlled machine tools for the manufacture of prototypes, patterns, molds, and dies. Applications include the design and manufacture of tooling for combustion engine manifold cores, pump volutes, turbine blades, plastic and glass bottle molds, and plumbing brass foundry, including taps, valves, and other pipe fittings.

The DUCT system of representation is based on planar cross-sections positioned in true cartesian space by means of a 3-dimensional curve, or spine. A graphics terminal can be used to define and modify the model interactively. DUCT has facilities for calculating cross-sectional and surface areas and component volume, thus enabling the user to determine the amount of material contained in a casting or molding.

DUCT can also be used to optimize a design to conform to a volume constraint or, in the case of a turbine scroll, for example, to ensure a uniform decrease in cross-sectional area along the length of the passageway. Another important design feature is the facility for finding complex die-split lines to give satisfactory draft angles. DUCT also has an automatic blending facility to join two adjacent surfaces smoothly. The DUCT surface model can be used to generate a finite element analysis mesh by way of an interactive mesh generation.

DUCT also provides visualization facilities, including first and third angle, isometric, conic projections, and stereo pairs. Finally, when a satisfactory design is achieved, an NC machine tool path can be generated to machine the DUCT surface pattern or mold. DUCT offers economic and technical advantages in designing, visualizing,

This system, written in FORTRAN, computes steel areas for the D-load type of pipe, for the elliptical cage, and for the double circular and inner circular with outer elliptical cage. Another part of the system deals with the pipe designs for various classes and allows the user to enter standard types of designs, including concrete mixes, amount of steel, bell and spigot ring sizes and weights, lengths of pipe sections, production footage, fuel costs for curing, and so forth.

Reports are easily printed on demand for individual analysis or are printed for standard costs on all product lines when updates are necessary.

Price: \$75

Contact: J. Bill Wallace

(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56

Huntington Beach, CA 92647

DSS/2 (Differential Systems Simulator, Version 2, Release 3)

Operating System: Independent

Keywords: • Mathematics • Scientific • Simulation

DSS/2 is a library of transportable FORTRAN IV subroutines for the numerical integration of systems of initial-value ordinary and partial differential equations (ODE/PDEs) with broad application in the computer analysis of large-scale systems in science and engineering.

Seven manuals are available for Release 3: *Introductory Programming Manual* (for ODEs), *An Introduction to the Numerical Method of Lines Integration of Partial Differential Equations*, *Numerical Method of Lines Integration of Partial Differential Equations in Cylindrical and Spherical Coordinates*, *Numerical Method of Lines Integration of Partial Differential Equations in Two Dimensions*, *Numerical Method of Lines Integration of First-Order Hyperbolic (convective) Partial Differential Equations*, *Variable-Grid Spatial Differentiators in the Numerical Method of Lines*, and *Numerical Method of Lines Integration of Partial Differential Equations in Three Dimensions*. The cost of the seven DSS/2 manuals is \$30.00.

The DSS/2 FORTRAN IV source code is available and includes a 9-track tape with the DSS/2 source code and all the problems in the seven manuals, a printed tape listing identifying all files and sections of the tape, the output from 10 test problems for checking the operation of the code on the purchaser's local computer, and a set of the seven manuals. Those four items are mailed by U.S. Priority Mail in the United States and Canada and by international air mail to other countries.

A version of this product is available for the VAX computer.

Price: \$1500 - \$29,995

Contact: Larry McCoy

(504) 769-2226 or (800) ESC-CADD

ENGINEERING SYSTEMS CORP.

3636 South Sherwood Forest Boulevard, Suite 400

P.O. Box 80318

Baton Rouge, LA 70816

DESIRE (Direct-Executing Simulation in Real Time)

Operating System: RT-11

Keywords: • Aeronautics/aerospace • Chemical • Simulation

DESIRE is a new floating-point equation-language system for interactive dynamic-system simulation. EARLY DESIRE runs up to five times faster than threaded FORTRAN and executes immediately on a RUN command without any external compiler or linker. An experimenter thus obtains results of model changes at once, an unprecedented convenience in interactive simulation.

An interpreted job-control language serves for interactive program entry, editing, file manipulation, and programming multirun simulation studies. The "dynamic" program segment containing differential equations in first-order form is entered just like the job-control statements and accesses the same named variables. An efficient, extra-fast minicompiler translates the "dynamic" segment practically instantaneously. Different precompiled integration routines can be overlaid from mass storage while the program runs.

EARLY DESIRE runs on any 28K-word PDP-11 or LSI-11 processor with FIS or FPU instructions under RT-11 and is configured for up to 40 state variables. EARLY DESIRE provides a true CRT screen editor with cursor-control and number-pad keys and produces run-time graphics even on VT-52-type alphanumeric terminals, as well as on VT-11-type displays.

Price: \$1600 - \$2400

Contact: G. A. Korn

(602) 298-7054

G. A. AND T. M. KORN, INDUSTRIAL CONSULTANTS

6801 E. Opatas Street

Tucson, AZ 85715

DLOAD

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

This FORTRAN-based simulation language is for dynamical system simulation — for example, the solution of large groups of differential equations. Line printer and Tektronix plotting routines are available for solution display. Eleven numerical integration routines are available — some with automatic step-size adjustment and error control. Programming is scale-factor free.

Mass storage of problem and solution files is included. Use of a VDU makes possible semiinteractive simulation with run-time alteration of parameters.

DARE/11 runs interactively on DIGITAL PDP-11s with VT-11 graphics and is an RT-11 V2C implementation. For more information, see *Digital Continuous System Simulation*, G. A. Korn and J. V. Wait, Prentice-Hall.

A version of this product is available for the VAX computer.

Price: \$1500 – \$3800

Contact: John V. Wait, Professor
(602) 621-2434

UNIVERSITY OF ARIZONA

Dept. of Electrical and Computer Engineering
Tucson, AZ 85721

Design Graphix™

Operating System: RSX, RT-11, TSX-PLUS

Keywords: • CAD/CAM • Graphics

This powerful, user-friendly, flexible, low-cost computer-aided design/drafting package is easy to learn and use. Design Graphix software packages offer a true 3-dimensional data base, multiple-pen and multiple-layer drawing construction, complete geometrics, user-definable symbols and figures, graphics and text editing, numerous text fonts, automatic dimensioning, and bill of materials. The software also features user-definable menus, command file processing, a macro programming facility, and utilities.

In order to minimize the user training cycle and maximize user friendliness and productivity, Design Graphix provides extensive help and automatic training facilities. Operator interaction can be command driven, menu driven, or autoprompting mode. In prompting mode, current parameter values are displayed and may be updated at the operator's discretion. Parameter-value retention and command repeatability also simplify operation.

A version of this product is available for the VAX computer.

This library of FORTRAN-callable subroutines is for digital-to-analog and analog-to-digital conversion of data, data compression/expansion, and efficient disk file input/output. DACS interfaces the DIGITAL LPA-11K Laboratory Peripheral Accelerator hardware and software operating on VAX-11/780 or PDP-11 computers to a user-oriented FORTRAN environment.

DACS allows multichannel input and output to/from disk in dedicated mode while under FORTRAN control. In addition, nonlinear scaling is optionally available for compressing 12-bit A/D samples to 8-bit byte representations in real time. Those samples are efficiently stored on the disk, then expanded back to linear 12-bit samples at the D/A output. Both A-law and micro 255-law compression tables are provided with DACS. DACS incorporates fast and efficient input/output MACRO routines for data transfer to/from disk.

The maximum aggregate sampling rate is determined by the LPA-11K hardware specifications, disk drive transfer rates, priority level, and system loading. Typical maximum aggregate sampling rates to/from disk are near 50 kHz, and rates to/from memory buffers are near 150 kHz.

DACS functions as a stand-alone software library or as a software interface to Signal Technology's Interactive Laboratory System (ILS), an organized software package for high-level user-oriented digital signal processing.

DIGITAL distributes this software product under license from Signal Technology, Inc., 5951 Encina Rd., Goleta, CA 93117.

Refer to SPD #A0.21.03 when requesting further information on this product from your local DIGITAL sales office.

DACS (Data Acquisition and Conversion System)[™] is a trademark of Signal Technology, Inc.

A version of this product is available for the VAX computer.

Price: \$4000

Contact: Consult your local DIGITAL sales office (see Introduction).

DAREP (Differential Analyzer Replacement — Portable), DARE/11

Operating System: RSX, RT-11, None required

Keywords: • Electrical • Mechanical engineering • Scientific
• Simulation

Distribution medium: RK05.

Designed for on-line interactive, transient/AC simulation of continuous systems and processes, this program uses a simple yet versatile application-oriented input language to simulate and evaluate those systems expressed by either an analog block diagram or a set of ordinary differential equations. Program features include a conversational, discipline-oriented input language; several optional integration methods; expanded-element block and function capabilities; graphics output and selective output control; unique AC analysis, frequency, and phase response plots; on-line file handling and editing; response optimization of linearized systems by parameter iteration under program control; and printout of the "A" matrix and eigenvalues.

The user describes a problem by entering block parameter and interconnection data. Thirty-five block types are available. Realistic system simulations can be obtained by including blocks that simulate noise, backlash, flip-flop, and so forth. Up to six transient response plots can be stored on disk files and retrieved for later use.

Frequency response optimization of a linearized system can be achieved. CSM/O/P allows the user to change the values of the system parameters under program control in order to realize a response closer to the response desired. Optimization is accomplished by varying only the user-selected parameters to maximize a merit function.

A spiral least-squares algorithm minimizes the difference between the desired frequency response and the system's response over a specified frequency interval.

Note: This program requires floating-point hardware and FORTRAN-77.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Carol Kunz, Director of Marketing
(505) 266-9622

BERNE ELECTRONICS, INC.
120 Dartmouth, S.E.
Albuquerque, NM 87106

DACS (Data Acquisition and Conversion System)™

Operating System: RSX

Keywords: • A/D, D/A • Data collection • Data conversion
• Disk utilities

Distribution medium: 9-track 800 bpi magnetic tape.

This program, written in FORTRAN, is a design of crotch plates, based on AWWA M11, Sec. 19, Nomograph Method, with reference also to a reprint from the *Journal AWWA*, Vol. 47, No. 6, June 1955, "Design of Wye Branches for Steel Pipe." This program computes the size of required plates for various thicknesses, finished plate weight, and waste values.

Price: \$150

Contact: J. Bill Wallace

(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56

Huntington Beach, CA 92647

CSEAT — Seat Frame Analysis Code

Operating System: RSTS

Keywords: • Automotive • Calculation aids • Graphics
• Structural engineering

Memory required: 16K.

CSEAT is a structural analysis program using closed form solutions to predict the performance of seat structures. The program calculates stress and deflection for a bucket seat, a bench, a seat, or a single-or double-sided latching seat. The program is useful for both automotive and commercial furniture applications. CSEAT features a graphic plot of a force-deflection curve that predicts nonlinear material behavior. CSEAT can be used with CDIG and CPLOT to provide a graphic representation of a seat back.

CSEAT is written in FORTRAN and uses PLOT10 graphics protocol. Yearly maintenance, support, and updates are available for \$1200. CSEAT can be distributed without a source code over phone line, disk, or tape.

A version of this product is available for the VAX computer.

Price: \$5600

Contact: Pat Glance

(313) 455-2340

CONCEPT ANALYSIS CORP.

9145 General Court

Plymouth, MI 48170

CSM/O/P (Continuous System Modeling and Optimizing Program)

Operating System: RSX

Keywords: • CAD/CAM • Electronic • Simulation

Distribution medium: magnetic tape.

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CPLOT is written in FORTRAN and uses PLOT10 graphics protocol. Yearly maintenance, support, and updates are available for \$800. CPLOT can be distributed without a source code over phone line, disk, or tape.

A version of this product is available for the VAX computer.

Price: \$3600 - \$5400

Contact: Pat Glance

(313) 455-2340

CONCEPT ANALYSIS CORP.

9145 General Court

Plymouth, MI 48170

CPOST — Postplotter for Finite Element Output

Operating System: RSTS

Keywords: • Mapping • Pre- and postprocessors
• Structural engineering

Memory required: 40K.

CPOST, the postprocessing plotter for CONCEPT, plots contour deflections and stresses. Deflections in the X, Y, and Z direction can be plotted as well as total magnitudes (vectors). Shear stress and Von Mises stress contours can be plotted from any user-defined viewing angle and for any complete or subset of the model. Plotted stresses and deflections can also be zoomed (blown-up, enlarged) for a section of the model. CONCEPT permits "restarts" so that additional information can be plotted on CPOST without rerunning the complete analysis. CPOST features an outline plotter as well as an option for dotted-line plot of all elements over stress or deflection contours.

CPOST is written in FORTRAN and uses PLOT10 graphics protocol. Yearly maintenance, support, and updates are available for \$400. The plotter can be distributed without a source code over phone line, disk, or tape.

A version of this product is available for the VAX computer.

Price: \$4400

Contact: Pat Glance

(313) 455-2340

CONCEPT ANALYSIS CORP.

9145 General Court

Plymouth, MI 48170

CRPLT

Operating System: RSTS, RT-11

Keywords: • Calculation aids • Civil engineering
• Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

COSAP Version 2B is written in BASIC-PLUS for use on PDP-11 computers in an 8-9K word user area under Version 8.0 of RSTS/E. Statistical analyses include marginal frequency, student's *t* test, chi square test, rank correlation, cross-tabulation (up to 8-way in a single command), first-order Pearsonian product-moment correlation, simple and multiple regression (up to 40 right-hand-side variables), breakdown, histogram, scattergram, factor analysis, analysis of variance, discriminant analysis, and probit analysis.

COSAP provides a coherent and versatile statistical package featuring convenient terminal data entry, flexible commands for editing or transforming data, a powerful select mode, a uniform data format, a conversational environment, and ample capacity (up to 32,767 observations on up to 4095 double-precision variables or 8191 single-precision variables).

The licensed package consists of source code for all modules, internal table files, test data files, and source code for BUILD, a powerful Lawrence program that is used for installation and that has many other uses. Printed documentation includes detailed instructions for installation, codebooks for test data files, and the comprehensive *User's Guide to COSAP*.

Price: \$1000 - \$5000

Contact: Dr. James S. Evans, Director of Computer Services
(414) 735-6571

COMPUTER CENTER PUBLICATIONS
Lawrence University, Box 599
Appleton, WI 54912

CPLOT — Graphics Plotter Program

Operating System: RSTS

Keywords: • CAD/CAM • Graphics • Mapping
• Structural engineering

Memory required: 25K.

This program uses formatted finite element data for the plotting of elements. CPLOT plots typical FEA elements, such as quadrilateral, triangular, beam, and solid. CPLOT allows 3-dimensional views at any rotational angle, has a shrink capability, and features both an automatic node and an element generator. A mesh generator is also available, and a node and element labeler is featured. CPLOT and CDIG are packaged together under CMODEL to create an excellent preprocessing FEA model-building system for finite element structural analysis. Default output format is NASTRAN. A reformatting program option places data in the CONCEPT format. Conversion formats for other FEA programs are available.

Price: Available upon request

Contact: David Schneider
(201) 447-3901

SOFTEST

555 Goffle Road
Ridgewood, NJ 07450

Cones

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

This system, written in FORTRAN, develops layout patterns in the flat for both concentric and eccentric cones. Concentric cones may be laid out by radii and/or offsets, whereas eccentric cones may be laid out by offsets only. Shops using these patterns should provide their own allowances by breakage.

Price: \$125

Contact: J. Bill Wallace
(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56
Huntington Beach, CA 92647

COORD

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

This program, written in FORTRAN, enables a user to input coordinates. The program then computes the distance in feet between coordinates, as well as the deflection angle.

Price: \$75

Contact: J. Bill Wallace
(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56
Huntington Beach, CA 92647

COSAP™ (Con conversationally Oriented Statistical Analysis Package)

Operating System: RSTS

Keywords: • Calculation aids • Mathematics • Statistics

Error messages are printed near the left margin of terminal output for speed of printing but end in column 72 of line printer output for ease of reading. Complete line annotation with variable letter sizes is provided. Support is available for most standard plotters. Vertical alignment is not available.

A version of this product is available for the VAX computer.

Price: \$3000 – \$5000

Contact: Robert E. Branch
(800) 368-4203

TECHNICAL INFORMATION SYSTEMS, INC.
116 West Plume Street
Norfolk, VA 23510

Computer Guided Probe — Electronic Fault Isolation Package

Operating System: RSX, RT-11, ULTRIX-11, UNIX* (Version 7)

Keywords: • Diagnostics • Electronic • Instrumentation

SofTest Inc. has developed the core of a digital guided probe algorithm for automatic test equipment (ATE). The core integrates with existing ATE operating software through modularizing ATE/probe interfaces and through implementing a high-level programming language.

The guided probe diagnoses the failure of a unit under test (UUT). The guided probe works through interaction, asking the test system operator to place a probe or an IC clip on a given point on the UUT. The guided probe software analyzes the data from the probed points. Once the failure has been located, the operator is informed of the location of the failure in both hard and soft copy. The probe handles the difficult situations of wired nodes, large bus nodes, and complex feedback loops.

The guided probe requires information about the circuit interconnects and IC reference data. The circuit interconnect is a list of all UUT components and a list of all interconnections between those components. The IC reference data consists of the logic value (zero, one, or tristate) that should occur at every node for each step in the test program. Signature data may also be used.

The probe package contains software to create the data bases for the circuit description and "learned" nodal data. The circuit description is entered in an English-like language; nodal data is learned by a program that prompts the operator. However, a digital logic simulator can generate those data bases, and the probe can be interfaced to them.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

A version of this product is available for the VAX computer.

Price: \$1500

Contact: Manny Velivasakis

(212) 889-3130

LEV ZETLIN ASSOCIATES, INC.

95 Madison Avenue

New York, NY 10016

COGO (Coordinate Geometry)

Operating System: RSTS, RSX

Keywords: • Civil engineering • Mapping • Mathematics

Distribution media: 9-track 800/1600 bpi magnetic tape, RL02, TU58 DECTape II cartridge.

COGO solves problems in plane coordinate geometry, starting from known points and progressing through a series of simple COGO commands. COGO commands input and determine points, lines, areas, tangents, and circular and spiral horizontal curves. The COGO commands are logical and similar to solving the problem by hand.

Major applications for COGO include land surveying, highway design, right-of-way surveys, bridge geometry, and subdivision work. Traverse adjustment commands have been added to the latest version. Plotting is also available.

In practical problems, a user is not dealing simply with points but rather with groups of points that define property boundaries, streets, right of ways, traverses, and so on. COGO allows the user to define and to refer to lists or figures of related points. Up to 9999 figures can be defined and referred to by number to compute intersections, parallel figures, areas, and so on. Operating on a group of points by specifying a figure number reduces the effort required to do a job. The coordinates and figures are stored by the computer in a COGO table. The computer saves that table so that the user can refer to the points and figures in future runs. Each table has a variable length up to 32,000 points. A maximum of 32,000 tables can be saved. People working on several jobs can use separate COGO tables. The VAX version has extensive plotting capabilities.

COGO may be run in either interactive or batch mode. COGO offers a flexible input format consisting of commands and comments. A comment can be on a COGO input record, by itself, or after the last data of any COGO command. A COGO command, which may be abbreviated, is made up of a command name and perhaps some data. Distances, angles, azimuths, and bearings may be typed in as the sum or difference of several terms. Since the input is in free format, the command names or their abbreviations and the data do not need to be in certain columns of an input record.

A version of this product is available for the VAX computer.

Price: \$5400

Contact: Pat Glance

(313) 455-2340

CONCEPT ANALYSIS CORP.

9145 General Court

Plymouth, MI 48170

COBEAM (Composite Beam/Girder Design)

Operating System: RSX

Keywords: • Architecture • Structural engineering
• Mechanical engineering

This program is used to design or analyze single, simply supported composite beams or girders. COBEAM is easy to use and does not require computer experience. Communication between the engineer and the computer is interactive, with all questions displayed in English on the CRT.

The program has default values for items of required input information, thus facilitating and reducing the amount of input data. Since the default values are displayed on the CRT, the user specifies only the data that differs from that assumed by the program.

Composite beams may be specified as interior or exterior, shored or unshored, and with or without a metal deck. If a metal deck is used, it may be placed perpendicular or parallel to the beam or girder. Shear connectors may be studs or channels. Concrete of any weight may be specified. The long-term effect on deflections may be taken into account by specifying an appropriate creep factor. Full or partial composite action may be specified. Restrictions may be placed on the construction dead load deflection and the nominal size of the W shape to be selected by the program. Loads may consist of construction dead load, superimposed dead load, and reduced live load. Each of those may consist of a uniform load, up to five concentrated and up to three partial or full trapezoidal loads. The weight of the steel beam is automatically considered by the program.

The output is printed in an 8½" x 11" format suitable for insertion in an engineer's calculation book. When the design option is used, the output consists of the least-weight W section that meets the required design criteria and imposed restrictions. A summary of the input data, maximum bending moments and stresses, number and distribution of shear connectors, and deflections for the different load cases is also included. When the analysis option is selected, the engineer specifies the W section. If a bottom cover plate is also specified, the program also computes the length of the cover plate, the location of its cutoffs from both ends of the beam, the size and length of end welds, and the size, length, and spacing of the intermediate welds.

312 Engineering

A version of this product is available for the VAX computer.

Price: \$1000 – \$4000

Contact: Eugene D. Thayer, P.E.
(800) 368-4203

TECHNICAL INFORMATION SYSTEMS, INC.
116 W. Plume Street
Norfolk, VA 23510

CLM COGO™ (Coordinate Geometry and Graphics)

Operating System: UCSD p-System™

Keywords: • CAD/CAM • Civil engineering • Graphics
• Mapping

CLM COGO is a software package for civil engineering, geometrics, surveying, mapping, estimating, design, and inventory. The system features a powerful user-oriented interactive command language, multiple geographic data bases of classified geometric objects and spatial data in double-precision coordinate fields, an interactive digitizer input option, and complete display graphics, plot preview, and plotter drafting. Full-screen editing and word processing of text data are provided. The system may be applied to highway design, subdivision and utility mappings, construction cost estimating, land use planning, site engineering, and other problems involving geometric and spatial data.

UCSD p-System™ is a trademark of University of California Regents.

A version of this product is available for the VAX computer.

Price: \$5000

Contact: C. L. Miller, President
(813) 831-7090

CLM/SYSTEMS, INC.
3654 Gandy Boulevard
Tampa, FL 33611

CMODEL — Finite Element Model Builder

Operating System: RSTS

Keywords: • Device drivers/handlers • Mapping
• Pre- and postprocessors • Structural engineering

Memory required: 44K.

The CMODEL system includes our CDIG and CPLOT programs as well as a weight generator. CMODEL is the recommended preprocessor for the CONCEPT program.

CMODEL is written in FORTRAN and uses PLOT10 graphics protocol. Yearly maintenance, support, and updates are available for \$1000. The software can be distributed over phone line, disk, or tape without a source code.

Price: \$6200

Contact: Pat Glance

(313) 455-2340

CONCEPT ANALYSIS CORP.

9145 General Court

Plymouth, MI 48170

Clientrac — A/E Marketing

Operating System: RSTS, RSX, RT-11

Keywords: • Information management • Management
• Report writer • Sales analysis

Distribution media: 9-track 800/1600 bpi magnetic tape, RL02, TU58 DECTape II cartridge.

This fully integrated software package manages the business development functions of the architectural and/or engineering firm. Clientrac uses data bases containing historical data on the firm, its clients and prospective clients, and past projects and proposals. The system uses that data to:

- Generate proposals, using either the SF 255 format or a general format that can be customized
- Produce summaries of fees and projects for completion of SF 254 over user-definable periods
- Develop project examples by Profile Code for SF 254 preparation
- Allow analysis of the business development effort by determining the proposal success rate by project type and/or by client type
- Determine the firm's historical record of success in procuring work by client type and project type
- Allow analysis of project profitability by project type and client type
- Generate periodic status reports of outstanding proposals
- Maintain mailing lists and print labels for announcements, newsletters, direct mail campaigns, and more
- Maintain records on competitors, with an analysis of strengths and deficiencies
- Select project experience records for proposal preparation
- Analyze success rate in obtaining work from a particular client or client type
- Produce tickler files for calls due on prospective clients during a definable period
- Analyze a competitor's success rate for a particular client or client type
- Evaluate the firm's record in obtaining work or shortlisting in comparison to a particular competitor

Clientrac handles branch office or subsidiary reporting and can be easily modified to customize reports or input formats.

- Traverse geometry: unknowns anywhere, rotation and translation, shape duplicator, fixed-area solutions, map checking, radial and offset stakeouts, and field traverse reduction and adjustment
- Subdivision plotting: full annotation, automatic windowing, automatic parallel-line generation for sidewalks and gutters on improvement and grading plans, and plot preview on graphics display terminals
- Topo reductions: five types, topo traversing, and topo plotting
- Vertical and horizontal stakeout: construction staking with stationing
- Earthwork: site or highway, automatic terrain interpolation and balancing, error control, and section plotting
- Geographical positions: state plane to geographical and vice versa
- Hydraulics: network analysis and backwater curves
- Structural: indeterminate frame, truss, and continuous beams

Approximately 100 engineering users currently dial into CONCAP's computer center or use the library on their own in-house minicomputer/plotter system. The library is also very popular with city and county public works departments.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$30,000

Contact: Ron Sawyer

(415) 635-5750

CONCAP COMPUTING SYSTEMS

Civil Engineering Group

Sixty 98th Avenue

Oakland, CA 94603

CLENS — Automotive Head Lamp Design Code

Operating System: RSTS

Keywords: • Automotive • Electrical • Graphics

Memory required: 15K.

CLENS is a code written to predict automotive head lamp optical performance, including light path and light intensity over the total lamp surface and projection field. The program was developed for the design analysis of aerodynamic plastic head lamps. Any 3-dimensional surface lens and reflector can be represented.

CLENS is written in FORTRAN and uses PLOT10 graphics protocol. Yearly maintenance, support, and updates are available for \$600. CLENS can be distributed without a source code over phone line, disk, or tape.

A version of this product is available for the VAX computer.

of such a channel, the capability of breaking the channel up into separate elements has been included. The division of a channel into sections is strictly a matter of judgment on the part of the user.

The printout includes flow velocity, cross-sectional area, and wetted perimeter.

Price: \$75

Contact: J. Bill Wallace

(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56

Huntington Beach, CA 92647

Circuits

Operating System: RSX, RT-11

Keywords: • Electronic • Signal processing

Memory required: 64K bytes. Distribution medium: 8" diskette.

Circuits is a program package with three circuit analysis programs: DCIRC for DC analysis, ACIRC for sinusoidal AC analysis, and TCIRC for arbitrary waveform AC analysis. The program is intended for the electronic engineer or technician with a PDP-11 or LSI-11 computer. The program capacity is 40 nodes for DCIRC and 25 nodes for ACIRC and TCIRC.

Price: \$150

Contact: Bill Jones

(805) 644-8502

FB CIRCUIT PRODUCTS INC.

4984 Teton Lane

Ventura, CA 93003

Civil Library

Operating System: RSTS, RSX

Keywords: • CAD/CAM • Civil engineering • Graphics
• Mapping

This package of interactive programs for the civil engineer, land surveyor, or structural engineer includes a powerful set of graphics programs interfaced to several popular plotters.

The library's main strengths are surveying, mapping, and subdivision design and drafting. Programs were developed and are supported by registered engineers, who stressed simple operation and extensive documentation. Operating manuals use an "example and sketch" instructional technique, ensuring that the engineer or designer will become fully productive in a short time.

Some applications are:

The Cephes double-precision math function library offers more than 80 accurate mathematical function subroutines in C source code for scientific and engineering applications. In addition to the elementary transcendental functions, the library includes 10 Bessel functions, 9 probability integrals, and several special functions.

Most of the routines use least maximum error polynomial or rational function approximants, which are theoretically more accurate than the machine arithmetic. Thus, accuracy is influenced only by arithmetic roundoff and cancellation. Several analytical equivalent approximations were tested for each elementary function. In some cases, such as the exponential function, cancellation error has been reduced by unusual range-reduction techniques.

Each function has been tested by comparing many points against high-precision check routines that use 144-bit floating-point arithmetic. Test results are given with the description of each routine.

In the proliferation of language compilers offered by third-party software companies, mathematical function routines often receive inadequate design and testing attention. Such problems have been anticipated in this package, resulting in a high degree of portability.

The double-precision library subroutines are written entirely in C language. Only the basic integer and floating-point arithmetic operations and a means of printing error messages are assumed to be available in the host system. The collection of high-precision check routines, available separately, uses some assembly language.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Joel Schacht

(617) 491-4180

OASYS

60 Aberdeen Avenue

Cambridge, MA 02138

Chanel

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Flow analysis
• Natural resources • Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

This system, written in FORTRAN, analyzes flow channels of irregular shape, such as a river with levees. Profile entry is accomplished by the use of coordinates. Variations in depth can be accomplished either by revising the end coordinates or by adding new end coordinates. Because the roughness and depth may vary widely over parts

shear stress in the bumper beam. The program automatically calculates information for various "hit" locations and can handle any velocity of impact. CBUMP includes solutions for PGM, Delco, or EVA Egg Crate absorbers; graphics output; and can be run interactively.

CBUMP is written in FORTRAN and uses PLOT10 graphics protocol. The program can be distributed without a source code over phone line, disk, or tape. Yearly maintenance, support, and updates are available for \$1800.

A version of this product is available for the VAX computer.

Price: \$16,500

Contact: Pat Glance

(313) 455-2340

CONCEPT ANALYSIS CORP.

9145 General Court

Plymouth, MI 48170

CDIG — Graphics Digitizing Program

Operating System: RSTS

Keywords: • CAD/CAM • Device drivers/handlers • Graphics

Memory required: 19K.

CDIG, a graphics driver used to digitize grid points and output the data in finite element format, permits digitizing in two views and merges the data in a 3-dimensional format. CDIG is used in conjunction with our CMODEL, CAPS, and CPLOT programs.

CDIG is written in FORTRAN and uses PLOT10 graphics protocol. Yearly maintenance, support, and updates are available for \$200. CDIG can be distributed without a source code over phone line, disk, or tape.

A version of this product is available for the VAX computer.

Price: \$2600 — \$5400

Contact: Pat Glance

(313) 455-2340

CONCEPT ANALYSIS CORP.

9145 General Court

Plymouth, MI 48170

Cephes Math Function Library

Operating System: RSX

Keywords: • Development tools • Language enhancers
• Mathematics • Scientific

Price: Available upon request

Contact: A. Murrell

0632 650451

INTERNATIONAL RESEARCH & DEVELOPMENT
COMPANY, LTD.

Fossway

Newcastle upon Tyne NE6 2YD

England

CAPS — Section Properties Program

Operating System: RSTS

Keywords: • Calculation aids • Graphics

• Mechanical engineering

Memory required: 19K.

CAPS calculates properties of an arbitrary cross-section and handles both open and closed sections. The program calculates area, moment of inertia, centroid, torsional resistance, and other section properties and can be used either with or without a digitizing tablet for data input. Output consists of a graphic plot of the section and calculated section property data or a formatted output file to be used as input to other programs, such as FEA. Various options permit plotting thickness as well as scaling and labeling of sections.

CAPS is written in FORTRAN and uses PLOT10 graphics protocol. CAPS can be distributed over phone line, disk, or tape. Yearly maintenance, support, and updates are available for \$600.

A version of this product is available for the VAX computer.

Price: \$4800

Contact: Pat Glance

(313) 455-2340

CONCEPT ANALYSIS CORP.

9145 General Court

Plymouth, MI 48170

CBUMP — Automotive Bumper Dynamic Impact

Operating System: RSTS

Keywords: • Automotive • Calculation aids

• Structural engineering

Memory required: 15K.

CBUMP, a program for calculating the phenomenon of impact for automotive bumper systems, is a tool to initially size bumpers and predict the optimum energy absorber device. The system can work for a variety of bumper shapes and predicts such information as peak force, deflection, absorber, damping coefficient, and both normal and

C303, written in FORTRAN, is a design of AWWA C303 reinforced concrete water pipe, pretensioned steel cylinder type, and offers three options:

- The first option computes steel areas for cylinder and rod, rod spacing, number of coils in a lineal foot, and circumferential stress at operating pressure. If areas are modified to conform to C303 limits, the program computes the maximum allowable pressure, based on 16500 PSI, or 50% of yield, whichever is controlling. The maximum transient pressure is also computed, based on 75% of yield. Bell gages, pipe od, and weights are also computed.
- The second option allows users to analyze an existing design. Default items permit easy entry of such items as lining and coating thicknesses, steel-to-concrete ratio, Spangler constants, and so forth. The program then computes the average circumferential stress in steel at operating pressure, the maximum pressure allowed at maximum stress, the maximum transient pressure allowed at 75% of yield, and the maximum external load permissible within the C303 limit of $D^2/4000$.
- The third option computes external earth loads for various heights of cover and E' values that are permissible on AWWA C303 reinforced concrete water pipe, pretensioned steel cylinder type, and permits users to select various soil coefficients and weights, as well as Spangler bedding coefficients.

Price: \$150

Contact: J. Bill Wallace
(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56
Huntington Beach, CA 92647

CADBIRD II

Operating System: RSX

Keywords: • CAD/CAM • Graphics • Mechanical engineering

CADBIRD II is an extremely versatile 2-D drafting and engineering design package that fully utilizes the facilities offered by the RSX-11M operating system. The package meets the requirement of mechanical-drawing offices and with its ease of operation, enables users to quickly exploit its powerful features to speed up the production of drawings and designs.

Suitable graphics stations and plotters are required to use the system's full capability. The standard system comprises a PDP-11/23 + computer, a Westward terminal, and a Benson A0 plotter.

304 Engineering

- **Embedded cylinder design:** The wire area, tension, and spacing under which the wire is wound on the core are computed so that the specific combination of design pressure and external load will fall on or under the design curve.
- **Lined cylinder design:** This pipe is sometimes referred to as SP-5. In this case, the wire area, tension, and spacing under which the wire is wound are computed so that the specific combination of design pressure and external load will fall on or under the design curve.
- **Noncylinder pipe design:** This option is similar to the first, except that no cylinder can be considered as far as compression in the core is concerned.

Price: \$200

Contact: J. Bill Wallace

(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56

Huntington Beach, CA 92647

C302

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. **Distribution medium:** 8" diskettes.

This program, written in FORTRAN, is for the design of reinforced concrete pressure pipe, noncylinder type, that conforms to AWWA standard C302. Olander's bedding is used to determine moments and thrusts arising from water weight, pipe weight, soil weight, and live loads. Special load coefficients may be entered if the designer chooses not to use Olander's bedding.

Design calculations are based on the ultimate-strength method of analysis. Program constants and controls may be reviewed and overridden.

Price: \$150

Contact: J. Bill Wallace

(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56

Huntington Beach, CA 92647

C303

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Simulation

• Structural engineering

Memory required: 256K. **Distribution medium:** 8" diskettes.

C301A**Operating System:** RSTS, RT-11**Keywords:** • Calculation aids • Civil engineering
• Flow analysis • Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

The design curves in this program are based on the results of the final stress in the core (F_{cr}). The design curves must be customized to each user's statistical test data for proper results. This program, written in FORTRAN, has two options:

- The first option allows the user to analyze assumed data. Wire sizes and areas are entered, as well as required D-loads, live loads, and internal pressure. This program then computes pipe weight, negative buoyancy, dynamometer value, wire limits, decompression, bursting pressure, 3-edge incipient crack, 3-edge transient and design limits, and so forth.
- The second option allows the user to compute wire areas, and so forth, based on required loads and pressures. Output is similar to that in the first option.

Price: \$150**Contact:** J. Bill Wallace
(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56
Huntington Beach, CA 92647**C301B****Operating System:** RSTS, RT-11**Keywords:** • Civil engineering • Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

C301B, written in FORTRAN, is a design of AWWA C301 prestressed concrete pipe, steel cylinder type. The program tries various concrete strengths before incrementing wire sizes and then tries incrementing the wire size and number of wraps before attempting to increment the core thickness. Program options allow the use of specific wire sizes, wire class, concrete strengths, and core thicknesses. Options to select various Olander and Paris bedding coefficients for moment and thrust calculations are also included. In the case of Olander, the program computes the required coefficients for any bedding angle between 0 and 180 degrees. The output report includes values for easy plotting of graphs, decompression values, wrapping stresses, and so forth.

Three types of prestressed pipe can be designed:

BRG (Bearing Life Calculations)

Operating System: CTS-300, IAS, RSTS, RSX, RT-11

Keywords: • CAD/CAM • Calculation aids • Manufacturing
• Mechanical engineering

Memory required: 64K minimum.

This program, written in MACRO, calculates bearing life versus load for ball, roller, and tapered roller bearings. The four variables are bearing life in B-10 hours, radial load on the bearing, bearing catalog rating, and bearing r/min. When any three of the four variables are supplied, the fourth variable is then calculated. The formulas used in this program are recommended by the American Bearing Manufacturers Association.

A version of this product is available for the VAX computer.

Price: \$500 - \$15,000

Contact: Dean Lampman
(513) 874-4499

STARFLO ENGINEERING
4740 A Interstate Drive
Cincinnati, OH 45246

C300

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

This program, written in FORTRAN, is for the design of reinforced concrete pressure pipe, steel cylinder type, that conforms to AWWA standard C300. Olander's bedding is used to determine moments and thrusts arising from water weight, pipe weight, and live loads. Special load coefficients can be entered if the designer chooses not to use Olander's bedding.

Design calculations are based on the ultimate-strength method of analysis. Program constants and controls may be reviewed and overridden.

Price: \$150

Contact: J. Bill Wallace
(714) 848-4405

COMPUTAPIPE
17610 Beach Boulevard, Suite 56
Huntington Beach, CA 92647

BOUSQ (Boussinesq)

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

This system, written in FORTRAN, determines live loads, based on Newmark's integration of Boussinesq's equation. The program was developed to analyze railroad loadings for area requirements. Tracks may be single, double, or multiple. In addition, reactions due to superimposed loads, either live or static, acting on one or more equal rectangular areas, may be evaluated.

Price: \$100

Contact: J. Bill Wallace

(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56

Huntington Beach, CA 92647

BOXCUL (Box Culvert)

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

This program, written in FORTRAN, is for the structural design of rectangular box culverts with or without haunches. The effects of the haunches, earthloads, highway loadings, railroad loadings, culvert weight, water weight, and internal hydrostatic pressure can all be evaluated either individually or in combination.

Moments, thrusts and shears, and required steel areas, based on ultimate-strength design, are computed for 128 points about the periphery of the box. Output may be for all 128 points or only for the controlling or critical points and includes the points of contraflexure.

Program constraints may be reviewed and altered. The top, bottom, and side slabs may be of different thicknesses.

Once the culvert dimensions are entered, the depths of cover may be varied without having to reenter the culvert dimensions. That facilitates the preparation of design tables.

Price: \$250

Contact: J. Bill Wallace

(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56

Huntington Beach, CA 92647

BDARE: Dynamic-System Simulation in BASIC

Operating System: CTS-300, IAS, RSTS, RSX, RT-11,
UCSD p-System™

Keywords: • Chemical • Education • Research
• Simulation

This software package supports VT-11 and VS-60 graphics, permits multirun simulation studies (for example, parameter optimization), and is well suited for interactive experimentation, since there are no delays for compilation and loading. BDARE offers either Runge-Kutta-Heun or Runge-Kutta-Merson (variable-step) integration.

UCSD p-System™ is a trademark of University of California Regents.

A version of this product is available for the VAX computer.

Price: \$110

Contact: G. A. Korn
(602) 298-7054

G. A. AND T. M. KORN, INDUSTRIAL CONSULTANTS
6801 E. Opatas Street
Tucson, AZ 85715

BONDJT

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. **Distribution medium:** 8" diskettes.

This program, written in FORTRAN, allows the user to design the number, size, and type of bonding jumpers to electrically bond pipe sections together for electrical continuity. Electrical resistance is directly proportional to the length of the conductor and is inversely proportional to the area in the cross-section. The jumper conductor should normally be designed so that the resistance in the jumper will not exceed 50% of the adjacent pipe cylinder (exclusive of any reinforcing rods). The program generates a range of values from 10% to 50%.

The program allows the user to quickly try different pipe lengths and types of jumpers, such as steel and copper.

Price: \$75

Contact: J. Bill Wallace
(714) 848-4405

COMPUTAPIPE
17610 Beach Boulevard, Suite 56
Huntington Beach, CA 92647

cylinder pipe, the program will compute the distance for each gage. Stations are computed where each gage should change due to thrust conditions.

Price: \$125

Contact: J. Bill Wallace

(714) 848-4405

COMPUTAPIPE

17610 Beach Boulevard, Suite 56

Huntington Beach, CA 92647

AUTO-CHEM

Operating System: RSX

Keywords: • Chemical • Data collection • Instrumentation
• Process control

AUTO-CHEM provides architectural design services to industrial-instrumented analysis laboratories for speed, accuracy, and longevity of instrumentation. AUTO-CHEM computerizes multiinstrumented analysis laboratories.

A version of this product is available for the VAX computer.

Price: \$15,000 - \$30,000

Contact: David L. Schroeder

(412) 776-3130

PROCESS CORP.

163 Thorn Hill Road

Warrendale, PA 15086

BANDER (Bandwidth Reducer for Stress)

Operating System: RSX

Keywords: • Mechanical engineering

BANDER reads a STRESS-11 input file and computes the bandwidth first and then reorders the joints so as to minimize the bandwidth of the structure. The program produces an output file for STRESS-11. That program will not affect the joint numbers or member numbers previously assigned on the model. BANDER modifies and rearranges the node numbers internally only.

A version of this product is available for the VAX computer.

Price: \$250

Contact: Manny Velivasakis

(212) 889-3130

LEV ZETLIN ASSOCIATES, INC.

95 Madison Avenue

New York, NY 10016

217 Predict — Equipment Reliability Predictions

Operating System: RSTS

Keywords: • Electronic • Manufacturing • Quality control

The 217 Predict system provides the derivation of "predicted" equipment failure rate and mean time between failures, plus system reliability, if applicable, in accordance with the requirements of MIL-STD-756B and based on the part-failure rate derivation techniques of MIL-STD-217. The 217 Predict concept is based on the use of stored "global" (or default) part-failure rate data. The stored part data is used, unless otherwise defined globally or at the part level by the user. This technique provides documentation of the part failure rate parameters used and minimizes part-level entries. The software is also based on the concept of creating an input data file independent of the 217 Predict software, using the 217 Predict sequential data entry definitions and string position or fixed-column position data entry techniques.

A version of this product is available for the VAX computer.

Price: \$6000/yr

Contact: Richard H. Butler

(408) 734-4910

SYSCON CORP.

540 Weddell Drive, Suite 1

Sunnyvale, CA 94089

AC Circuit Analysis Program

Operating System: RSTS, RSX, RT-11

Keywords: • Electrical

Memory required: 8K.

Given specific data about circuit elements, this BASIC program analyzes the AC frequency response of a linear network. Data may include resistors, inductors, capacitors, independent and dependent voltage, and current sources. DECUS number 11-12.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

ANKOR

Operating System: RSTS, RT-11

Keywords: • Civil engineering • Structural engineering

Memory required: 256K. Distribution medium: 8" diskettes.

This program, written in FORTRAN, computes thrust values at turns and bulkhead types of conditions and is designed to be used when harnessed or welded joints are required due to thrust conditions. If various cylinder gages are permitted, as with pretensioned

Engineering



Robert Pyle

Wabash College Student Information System

Operating System: RSTS

Keywords: • Mailing lists • Security • Statistics

Memory required: 28K.

Wabash College has implemented its nonfinancial data processing on its RSTS system in BASIC-PLUS. The system handles student registration, grade reporting, alumni and applicant record keeping and reporting, and many types of mailings. Most file updating is done directly by the secretarial staff of the responsible office by way of a remote terminal. Thus, each office served can maintain protection for those files and reduce staff requirements at the computer center. DECUS number 11-43.

Note: Write-up is also contained in the manual.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

TUTR: BASIC Tutoring Programs

Operating System: RSTS

Keywords: • Computer-aided instruction

Memory required: About 6K.

This package of programs tutors the user in the elements of the BASIC language and RSTS-11 commands. To use the self-documenting programs, the user loads all programs from the DECTape onto the system disk and runs TUTR01. From that point on, the programs will tell the user what to do and which programs to run next. DECUS number 11-25.

Note: Programs are self-documenting. TUTR01 through TUTR17 are included.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

UNIX* System Tutorials

Operating System: ZENIX

Keywords: • Compilers • Computer-aided instruction
• Development tools • Operating systems

The UNIX* System Tutorials, developed by User Training Corporation, are a new method of learning the UNIX* system. The series of courses make available at low cost to the user a one-on-one style of instruction. The innovative audiodigital process, using standard audio cassettes, permits live recordings of on-line instructional sessions to be played back to your CRT terminal. The tutorials are an effective way to introduce the UNIX* system to your in-house development or clerical personnel. The UNIX* System Tutorials include courses for both technical and nontechnical personnel, spanning the important topics in the UNIX* system, as well as courses on C programming and the Multiplan® Electronic Worksheet.

* UNIX is a trademark of AT&T Bell Laboratories. Multiplan® is a registered trademark of Microsoft, Inc.

A version of this product is available for the VAX computer.

Price: \$200 (rental) - \$476 (rental)

Contact: Marketing Department
(408) 425-7222

THE SANTA CRUZ OPERATION, INC.
500 Chestnut Street
Santa Cruz, CA 95060

student records. Various reports may be obtained; in addition to listings by school and by year of graduation, school personnel may obtain listings by street or by bus number.

Student records may include the following items: student number containing the year of graduation, student name and address, home and emergency phone numbers, bus number, date and place of birth, sex, entry date and entry code, withdrawal date and withdrawal code, previous credits, rank in class, grade point average, 766 information, parent name and address, and attendance data year-to-date totals. The items above may change from school to school.

Price: Available upon request

Contact: C. R. Burgess

(617) 275-6800

QEI, INC.

119 The Great Road

Bedford, MA 01730

Student Terminal Management System

Operating System: RSTS

Keywords: • Property management • Scheduling • Statistics

Memory required: 17KW.

This system automatically handles scheduling of student terminals on a first-come, first-served (one-hour-on, one-hour-off) basis. Provisions are made to send messages to all student terminals and to ascertain the users and their programs. Terminal usage can be formatted for printout to teachers, or usage percentage can be plotted on a VT100 with hard-copy backup to justify resource changes. The available terminal list can be dynamically changed at any time. DECUS number 11-654.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Tutor

Operating System: RSTS

Keywords: • Computer-aided instruction

Memory required: 8K.

Tutor teaches the user how to use the computer but can be adapted for other teaching purposes as well. Provisions are made for review work and for progressively difficult tasks. DECUS number 11-205.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

- Compare: The student asks questions and gets specific information about occupations of interest.
- Planning: The student gets displays of programs for entering occupations, licensing or certification requirements, and sources of financial aid.
- Strategy: The student evaluates occupations in terms of the rewards they offer and the risks of trying to enter them.

A version of this product is available for the VAX computer.

Price: \$2400

Contact: Ray Potter, SIGI Program Manager

(609) 734-5165

EDUCATIONAL TESTING SERVICE

Princeton, NJ 08541

SofTeach® for UCSD Pascal® on the p-System™ Operating System

Operating System: p-System

Keywords: • Computer-aided instruction

SofTeach is a computer-aided instruction package for the UCSD Pascal programming language. SofTeach progresses step by step through a set of quizzes; one quiz tests your knowledge of UCSD Pascal, and the other quiz requires you to write a Pascal program. A documentation package is included. SofTeach requires a UCSD Pascal Compiler.

UCSD Pascal® is a registered trademark of the Regents of the University of California.

Price: \$75

Contact: Paula Johnson

(619) 451-1230

SOFTECH MICROSYSTEMS, INC.

16885 W. Bernardo Drive

San Diego, CA 92127

Student Record Information System/Master File

Operating System: CTS-300, RSTS, RT-11

Keywords: • Data collection • Information management
• Report writer

The Student Information System maintains the personal history, attendance record, and previous grading information for each student. This system is the data base for both the QEI Attendance and the Grade Reporting systems. The Scheduling System may be linked to the Student Information System. Each school may specify the information it wishes to maintain on the students. The Record Information System also includes mailing labels, an age-in-grade report, and maintenance programs for ease in updating, adding, and deleting

Price: \$3000

Contact: John A. Christensen
(208) 522-7490

IDAHO FALLS SCHOOL DISTRICT NO. 91
690 John Adams Parkway
Idaho Falls, ID 83401

SCORE

Operating System: RSTS

Keywords: • Report writer • Statistics

Memory required: 27K.

This program grades multiple-choice tests with up to 67 questions and answers between 0 and 9, allows penalties for invalid ID numbers and for each question to count a different number of points (weight). SCORE can produce a report for each student, detailing his/her performance on the test; an instructor's report summarizing the performance of each student in the class; a report analyzing each question and each answer in terms of numbers and percentages of students choosing each; a bar graph analyzing correct answers; and a bar graph showing the numbers of students scoring 90-300, 80-89, 70-79, 60-69, and 0-59.

If ROLMAN (DECUS number 11-334) is installed and used, SCORE can record grades in the ROLMAN files, check for duplicate entries, and obtain information from ROLMAN for printing the reports above. SCORE allows the user to hand grade part of the test and to include the hand-graded score with the machine-graded part of the test. Documentation is minimal but includes examples. DECUS number 11-568.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

SIGI (System of Interactive Guidance and Information)

Operating System: RSTS

Keywords: • Decision support

This system helps college-bound students and students in college make informed career decisions. The system emphasizes not only the decisions but also the process of decision making. SIGI consists of five subsystems, as follows:

- **Values:** The student examines 10 occupational values, such as helping others, income, independence, and security, and weighs the importance of each one. The student then plays a values "game" to test the validity of the assigned weights and to help redefine his or her value structure.
- **Locate:** The student puts in specifications and gets lists of occupations that meet those specifications.

This package handles the payroll for public institutes, supporting any typical pay period and handling contract or salaried personnel, time card personnel, or daily rate personnel. Contracted salaries can be accrued, and adjustments can be made to wages. The package provides for extensive multiple cost accounting for employee wages. Optionally, leave can be accounted for and automatic adjustments created if leave is exceeded. The system's regular, void, and supplementary payroll procedure provides an analysis of salaried contracts; payroll journal expense and obligation reports; year-to-date, fiscal-to-date, and quarter-to-date reports; deductions registers; and so forth. The system prints 941s and W-2s and also provides for extensive staff accounting, which allows for the printing of a teacher's contract or the costing of a teacher's salary schedules. The system can be run by itself but is also designed to post its transactions to a general ledger if you are using the Fiscal Package. The system is completely on line and can be run remotely using a terminal.

Price: \$2700

Contact: John A. Christensen
(208) 522-7490

IDAHO FALLS SCHOOL DISTRICT NO. 91
690 John Adams Parkway
Idaho Falls, ID 83401

School Student Accounting Package

Operating System: RSTS

Keywords: • Library science • Scheduling

This package of programs handles student records for a given school, providing for preregistration, master schedule-building information, registration through either on-line arena scheduling or automatic scheduling, schedule updating daily, daily attendance by class, and grade reporting, as well as many special features. The package can be run from a remote terminal located in the school's office. The student's record is on line at all times.

The system generates master class, room, student, and teacher schedules; class, course, incomplete, and failure lists; daily attendance and weekly ADA reports; preregistration counts; conflict matrices; class loads; report cards; honor roll listings; and teacher's grade distribution.

A gummed label for the student's permanent record folder can be printed at the end of each semester or year. A library system that interfaces to this package is also available.

School Instructional Packages

Operating System: RSTS

Keywords: • Computer-aided instruction • Mathematics

These instructional packages are designed to tutor and/or drill students in various instructional disciplines. Each package is a series of programs.

- Elementary Level Instructional Package: Vol. I drills students on basic math facts with a variety of games. Vol. II drills students further on basic math facts, keeping track of the students who do the most problems in a given amount of time. Vol. III is very elementary in its drill of students on math facts.
- Fraction Package teaches students about fractions.
- Decimal Package teaches students about decimals.
- Division Package teaches and drills students about long division.
- Percent Package tutors and drills students about percent concepts.
- Signed Number Package tutors and drills students in signed-number arithmetic.
- Reading Package allows the student to read a passage on the terminal screen and take a comprehensive test.
- Phonetics and Comprehension Package uses more than 3000 words and sentences for each word to drill students on sounds and also provides various word games.
- Spelling Package allows the teacher to put the weekly spelling words into the computer and to drill the student on them.
- CAI Package allows the teacher to build lessons and administer them to the student through the computer terminal. Records are also kept.
- Physical Science Package drills students on several science topics, such as metric conversions.
- Program Simulation Package demonstrates the execution of a BASIC program and provides drill on BASIC string functions.

Price: \$500

Contact: John A. Christensen
(208) 522-7490

IDAHO FALLS SCHOOL DISTRICT NO. 91
690 John Adams Parkway
Idaho Falls, ID 83401

School Payroll Package

Operating System: RSTS

Keywords: • Cost accounting • Government • Payroll
• Personnel

student schedules; multi-time vector classes; variable class-balancing facilities; course, alternate course, and student priority scheduling; linked or blocked courses; and a study hall subsystem.

The system offers Course Catalog, Student Scheduling, Teacher Catalog, Teacher Schedules, Student Verification, Student Conflicts, Simple Tally, Class Lists, Homeroom Lists, Conflict Matrix, Master Schedule Listing, and many more reports.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Edward J. Mackniak or Ray DeVries
(800) 243-3177

SYSTEMS ELEVEN, INC.
Middlebury Hamlet
Middlebury, CT 06762

School Fiscal Accounting

Operating System: RSTS

Keywords: • Accounting • Accounts payable
• Financial management • General ledger

This package of programs, designed to handle the financial affairs of a public institute, is based on a fully accrued and encumbered system of interfund accounting for publics. The package handles accounts payable, general ledger, and budget and expenditure reporting. The system is general ledger account code-independent, and all transactions post immediately to the general ledger, thus providing up-to-date balances in the general ledger for as often as transactions are entered. The system supports purchase orders, invoices, general journals, handwritten checks, cash receipts, bank deposits, accounts receivable invoices, journal vouchers, budget setups, and budget adjustments. Accounts payable checks can be written at any time and as many times as necessary during the month. All checks are drawn on one fund, and appropriate interfund entries are made to keep funds in balance. The general ledger contains an on-line lookup feature of any account(s). Budget and expenditure reports are provided, along with a balance sheet report by fund.

A consumable inventory and a work order system are also available as subsystems to the fiscal system. The work order system can run stand alone, and the inventory system could be made to run alone. Each package is an additional \$500.

Price: \$2400

Contact: John A. Christensen
(208) 522-7490

IDAHO FALLS SCHOOL DISTRICT NO. 91
690 John Adams Parkway
Idaho Falls, ID 83401

The package includes automatic installation programs for all necessary programs to enroll students, to drill them in one or all of the applicable strands, and to generate reports for teachers. A manager's guide and a teacher's manual with complete curriculum description are also provided.

Price: \$2500

Contact: M. Michelson

(212) 549-8044

RIVERDALE COUNTRY SCHOOL

5250 Fieldston Road

Bronx, NY 10471

ROLMAN III

Operating System: RSTS

Keywords: • Forms management • Personnel • Statistics

Memory required: 24KW.

ROLMAN is a system of routines for the interactive creation and maintenance of class rolls. The system supports 21 functions. The maintenance function allows ROLMAN to modify, correct the status information, display part or all of the roll at the user's terminal, and print the roll for use as a gradebook. ROLMAN also creates individual reports to inform each student of his/her current standing. The system also provides the user with various statistics. ROLMAN is easy to use and comes with a user's manual, examples, and a guide. DECUS number 11-334.

Note: Files built by previous versions may not be processed by this version and vice versa. The format of the files built by ROLMAN has been modified to conserve disk space. A field for a social security number has been added for each student, and the special information field has been expanded to 40 characters. The number of tests and problems have been expanded to 15 each. The REPORT, DISPLAY, and SELRPT formats have been changed accordingly. A new function, CSSN, has been added to allow for correction of an incorrect social security number.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Scheduling

Operating System: RSTS

Keywords: • Scheduling

This on-line interactive system helps the user through the scheduling process from student requests to building the master schedule to printing student schedules. Some features are master schedule building, schedule changes, and class conflict screen; computer scheduling of individual students; generation of daily add/drop lists and updated

Ordering information: Order DECUS Number 11-380A (writeup (AB)) for the explanatory documentation. Some of the text is illegible, but because of the high level of interest, it will be distributed "as is." (See Associated documentation.) Order DECUS number 11-380B (writeup (AA)) for a copy of a paper written on QUEST.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Registration

Operating System: RSTS

Keywords: • Government • Information management

This complete child-accounting system contains all pertinent information required for state and federal reporting. User-defined fields allow for storing information unique to a school system. Master registration lists by system, school, grade, and so forth are readily available. This system has been designed around guidelines provided by the U.S. Department of Education, state guidelines, and individual school needs. Information in the following categories is stored and readily retrievable: personal identification; family and residence; physical, health, sensory, and related conditions; tuition; mental, psychological, and proficiency test results and related student characteristics; and enrollment, performance, transportation, and special assistance.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Edward J. Mackniak or Ray DeVries
(800) 243-3177

SYSTEMS ELEVEN, INC.
Middlebury Hamlet
Middlebury, CT 06762

Riverdale Math Package

Operating System: RSTS

Keywords: • Computer-aided instruction • Mathematics

This set of programs provides drill and practice in addition, subtraction, multiplication, division, number concepts, inequalities, fractions, decimals, negative numbers, exponents and roots, laws of arithmetic, and percents. Problems are generated for each student, providing individualized drill, based on previous performance. The curriculum is divided into topic areas, or strands. The performance stage level of each student is differentiated by strands.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Edward J. Mackniak or Ray DeVries
(800) 243-3177

SYSTEMS ELEVEN, INC.
Middlebury Hamlet
Middlebury, CT 06762

QUEST, Standard MUMPS Teaching Program, and DOC

Operating System: DSM

Keywords: • Computer-aided instruction
• Device drivers/handlers • Documentation
• Query facilities

Memory required: 4K MUMPS partition.

These three Standard MUMPS programs provide a basic set of applications for a new user of Standard MUMPS. QUEST is a simple questionnaire driver that facilitates the specification and editing by authors of computer-aided teaching programs, the use of those programs by students in learning and in being tested, and the monitoring by supervisors of the use of QUEST. For simplicity, the student's answers may only be of three types: multiple-choice answers, yes/no answers, and key-phrase answers, where the student enters a response in free text. All interactions with QUEST are in English, and no user is required to have computer skills.

The Standard MUMPS teaching and testing program explains the concept and language features of Standard MUMPS and can test how effectively the student is learning the material presented.

DOC is a documentation package centered on an automatic cross-referencer, which identifies what and where local and global variables are referenced, what and where commands (particularly those for transfer of control) occur, and the locations of various functions, special variables, comments, and indirection. That data may be printed in different reports both for individual routines and for sets (programs or packages) of routines. DECUS number 11-380.

Associated documentation: A copy of each of the following monographs can be ordered through Polly Raith, Biomedical Computer Laboratory, 700 South Euclid, St. Louis, MO 63110: *QUEST Design Manual*, Monograph #300; *Standard MUMPS Teaching Program Design Manual*, Monograph #335; *DOC Design Manual*, Monograph #301.

requirements and standard budgetary reports. The package enables the user to implement Handbook II guidelines and to meet state-mandated line-item reporting requirements.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Edward J. Mackniak or Ray DeVries
(800) 243-3177

SYSTEMS ELEVEN, INC.
Middlebury Hamlet
Middlebury, CT 06762

Prolog

Operating System: UNIX* (Version 7)

Keywords: • Data base management

This implementation of Prolog, written in C, supports a very limited set of built-in predicates. The program provides efficient memory management (last-call optimization), using copying method. The program includes a simple single-user relational data base handler (deductive data base).

Porting to VAX requires some adaptations.

* UNIX is a trademark of AT&T Bell Laboratories.

Price: \$70 - \$300

Contact: M. Bruynooghe
32-16-20-06-56

UNIVERSITY OF LEUVEN, DEPT. OF COMPUTER
SCIENCE
Celestijnenlaan 200A
Heverlee B3030
Belgium

PRSN (Personnel)

Operating System: RSTS

Keywords: • Personnel

PRSN, a comprehensive personnel system for schools and municipal agencies, contains demographic, education and medical information, and work experience. Certification status and assignment areas are recorded for the professional staff. Salary and benefit status aid in negotiations and projections. Reports, such as seniority lists, subject-area assignments, cross-certification, and special systemwide directories, are readily produced. A negotiations subsystem allows for fixed rates or percentage increases for each step and level in the salary schedules. Employee attendance is posted to a calendar that appears on the screen, permitting quick visual analysis of absentee patterns. Hard-copy reports are also provided.

software. Enrollment limits can be set for each section. Notification of time conflicts and closed classes are displayed on the user terminal, with overrides allowed for each. The system handles audit and variable-credit courses and late registration. Closed-class lists and other registration management reports are available on demand. Grade entry and update can be conveniently handled for individual students or entire sections. Validity checks prevent the entry of illegal grades. Grade-point averages, cumulative hours attempted and earned, and so forth, are calculated according to institutional definition. During the formal drop/add period, information on drop/add changes is automatically accumulated and is available for reporting with each drop or add activity. Changes to a student schedule are reflected in automatic adjustment of class enrollment, the student's credit-hour load, and other related data in the student and course files. The VAX version of the system provides prerequisite and corequisite checking, notification of academic and financial holds, open entry/open exit, reserved seats, waitlisting, and display of alternatives to closed classes. (The Registration and Academic History systems are combined on VMS.)

POISE DMS-Plus (the POISE Data Management System) provides the foundation for the POISE Registration System and is a prerequisite. DMS-Plus enables users to produce personalized letters, labels, and ad hoc reports. The POISE Registration System (with DMS-Plus) can stand alone or be interfaced with other POISE modules to provide an integrated base of information for administrative processing.

A version of this product is available for the VAX computer.

Price: \$8000

Contact: Eva Kinnard

(505) 623-8554

THE POISE COMPANY, INC.

201 North Nevada

Roswell, NM 88201

PPBS (Budgeting/GL/AR/AP)

Operating System: RSTS

Keywords: • Accounting • Financial management

PPBS provides the central office administrator with a complete fiscal management tool. Financial record-keeping functions are processed on line, resulting in immediate updating of files. Historical data in the current files aids in projecting future budget needs.

The package encompasses a receivables system, a payables system, and a general ledger system. Budget files, vendor files, purchase orders, and expenditure files allow for complete processing. A comprehensive set of reports is available, including federal and state

This system generates bills for tuition, lab fees, and other student charges. Billing is handled individually or grouped through a statement sent each month (to a separate billing address if desired) as well as through a pop-up bill at the end of the registration line. Plain 8½" x 11" continuous forms may be used to print the billing statement, with the mailing address properly aligned for a window envelope. Billing statements contain transaction details, such as tuition fees, miscellaneous fees, student charges, financial aid awards, housing, other debits or credits, and previous balance. Tuition expenses are computed from data in the POISE Registration system. Charges are defined by the institution and will accommodate separate rates for instate and out-of-state students, flat-rate tuition, variable tuition charges based on credit hours, standard and special fees, room and board, scholarships, loans, grants, and other credits fed from a POISE Financial Aid file. Preregistration estimated billings can be printed, with payment retained until the actual billing cycle. POISE sets up one format each for the pop-up bill and the billing statement. Pop-up receipts can be generated as payment transactions are recorded. The system allows for partial payment while maintaining an accurate balance. Transaction details are generally retained during the term, with the previous-balance summary figure carried into the next term for printing on subsequent billings. (On the VAX, the actual period for retaining transactions is up to the customer.)

The Student Receivables System can be interfaced with the POISE-designed general ledger and other POISE modules to provide an integrated base of information for administrative processing. Prerequisites are POISE DMS-Plus and POISE Student Registration/Reporting System.

A version of this product is available for the VAX computer.

Price: \$8500

Contact: Eva Kinnard

(505) 623-8554

THE POISE COMPANY, INC.

201 North Nevada

Roswell, NM 88201

POISE Student Registration/Reporting System

Operating System: RSTS

Keywords: • Information management • Report writer
• Scheduling

This system includes on-line enrollment, registration and preregistration for multiple terms or semesters, drop/add, class rosters, student schedules, transcript labels, report cards, and the facilities for grading and student reporting. The system provides the input, update, and maintenance of student and course data. Student identifiers are institutionally determined rather than dictated by the

POISE Payroll System

Operating System: RSTS

Keywords: • Payroll

This system includes standard payroll features, with most input reporting and distribution handled through the data management routines. Each individual is allowed standard deductions, miscellaneous deductions, and tax-sheltered annuities. New deductions can be added as needed. The system handles hourly earnings, overtime, contracts, and overload, as well as sick leave and vacation hours. The salaries of contract employees can be controlled by starting and ending dates. Payment will be stopped if the contract balance falls below zero. Student employees are treated as contract employees, with pay cut off at the end of the work/study period. Each deduction can be governed by a cutoff date and/or amount. An individual may work under multiple budget codes. The institution can set up any number of payroll runs a month, with payroll processed on all employees or a selected group. Paychecks can be produced on institutionally designed stub-over or stub-under forms. The system also handles direct deposits and hand-processed checks. The payroll system provides for 1-time pay, termination pay, and irregular payroll runs. Gross pay and employer's share of FICA, EIC, retirement, and other benefits can be posted to the POISE general ledger.

POISE DMS-Plus (the POISE Data Management System) provides the foundation for the Payroll System and is a prerequisite. DMS-Plus provides users with the ability to produce personalized letters, labels, and additional ad hoc reports. Many personnel tracking requirements can be handled through the POISE Payroll System in combination with DMS-Plus. The POISE Payroll System (with DMS-Plus) can stand alone or be interfaced with other POISE modules to provide an integrated base of information for administrative processing.

A version of this product is available for the VAX computer.

Price: \$9000

Contact: Eva Kinnard

(505) 623-8554

THE POISE COMPANY, INC.

201 North Nevada

Roswell, NM 88201

POISE Student Billing/Receivables System

Operating System: RSTS

Keywords: • Accounts receivable • Billing

Price: \$9500

Contact: Eva Kinnard
(505) 623-8554

THE POISE COMPANY, INC.
201 North Nevada
Roswell, NM 88201

POISE Fiscal Reporting System

Operating System: RSTS

Keywords: • Accounts payable • Financial analysis
• General ledger

This system is based on a modified accrual accounting system and operates on the basis of an annual budget. The system includes accounts payable, cash receipts, journal entries, encumbrances, general ledger, and budgetary accounts. Audit trails are available for all transactions. The protection of individual fields or an entire file is determined by the responsible office. Current information is readily available for inquiry or reports. Accounts payable checks are written on either a stub-over or stub-under check form. Listings of outstanding accounts payable and outstanding purchase orders are provided, as are aged accounts payable listings. Adjustment entries are handled through a journal entry file. The system provides for budget adjustments to any account, with affected balances adjusted accordingly. Budget revisions and previous-year budget data are maintained to provide current year-to-date comparisons and to assist in the projection of future budgets. Revenue and expenditure reports and balance sheet reports can be generated on a frequency determined by the institution. The system meets most accounting standards, such as NACUBO and USOE Handbook II.

POISE DMS-Plus (the POISE Data Management System) provides the foundation for the POISE Fiscal Reporting System and is a prerequisite. DMS-Plus enables users to produce additional ad hoc reports. The Fiscal Reporting System (with DMS-Plus) can stand alone or be interfaced with student receivables, payroll, and other POISE modules to provide an integrated base of information for administrative processing.

A version of this product is available for the VAX computer.

Price: \$11,250

Contact: Eva Kinnard
(505) 623-8554

THE POISE COMPANY, INC.
201 North Nevada
Roswell, NM 88201

alumni/development office can easily produce mailing labels, gift acknowledgments, announcements, and personalized letters as needed. Pledges can be monitored and reminders printed. Donor tracking and matching gifts are handled by the system. Information can be posted to the general ledger if the POISE Fiscal Reporting System is used.

POISE DMS-Plus (the POISE Data Management System) provides the foundation for the Alumni/Development System and is a prerequisite. DMS-Plus enables users to produce additional personalized letters, labels, and ad hoc reports. The Alumni/Development System (with DMS-Plus) can stand alone or be interfaced with other POISE modules to provide an integrated base of information for administrative processing.

A version of this product is available for the VAX computer.

Price: \$9200

Contact: Eva Kinnard

(505) 623-8554

THE POISE COMPANY, INC.

201 North Nevada

Roswell, NM 88201

POISE Financial Aid Reporting System

Operating System: RSTS

Keywords: • Financial analysis • Information management
• Report writer

This system provides facilities for processing financial aid applicants and generating associated reports. Award packaging may be performed on line for individuals or groups. Packaging, award acceptance, and fund transmittals may be handled during the registration process if the necessary information is available. The student may accept or reject individual portions of the award package. Awards may be canceled or adjusted at any time. Detailed and summary reports containing fund budget, amount awarded, amount accepted, available funds, and amount transmitted are printed. Award notification letters and additional letters, statements, and reports can easily be produced on an ad hoc or cyclical basis. FISAP report information (Income Distribution of Program Recipients and Information on Eligible Aid Applicants) is generated by the system. The Financial Aid System uses the prerequisite POISE DMS-Plus system for inquiry, update, ad hoc report generation, and so forth and can be interfaced with other POISE modules to provide an integrated base of information for administrative processing.

A version of this product is available for the VAX computer.

POISE Admissions System

Operating System: RSTS

Keywords: • Information management • Mailing lists

This system allows the staff of the admissions office to generate personalized letters of acceptance or rejection, letters reminding applicants to send specific items required to complete the admission process, and a variety of ad hoc reports to assist in the evaluation of current admission procedures. Maintenance and reporting are handled through data management routines. The type of information captured can be determined by institutional recruiting and reporting requirements. Reports can reflect success rates of various recruiting efforts by source, geographic area, or type of campaign. Applicant information is readily available for registration processing, and information on accepted students can be easily transferred to the student file.

POISE DMS-Plus (the POISE Data Management System) provides the foundation for the Admissions System and is a prerequisite. DMS-Plus enables users to produce additional personalized letters, labels, and ad hoc reports.

The POISE Admissions System (with DMS-Plus) can stand alone or be interfaced with other POISE modules to provide an integrated base of information for administrative processing. Information introduced into the system can be carried forward into all appropriate areas, eliminating redundant entry. Data flows from one application area to another in automatic fashion but under the control of the user. The POISE approach avoids the drawbacks and complexities of traditional data base management systems by providing greater flexibility, speed and simplicity in implementing changes, and ease of use by nontechnical personnel.

A version of this product is available for the VAX computer.

Price: \$7000

Contact: Eva Kinnard

(505) 623-8554

THE POISE COMPANY, INC.

201 North Nevada

Roswell, NM 88201

POISE Alumni/Development System

Operating System: RSTS

Keywords: • Information management • Mailing lists

This user-oriented menu-driven system provides multiple screens for data entry, update, and inquiry. Information on graduating seniors can be transferred directly from the POISE Registration System. Solicitations and other mailings can be targeted according to specific locales, majors, donation histories, and so forth. The

- Computation capabilities, including all standard algebraic operations, such as expressions; built-in and user-defined functions, expanded and compact notation matrixes, and variable assignments. Notation is academic standard. Summations, iterated statements, full graphs, and so forth result from single-line statements.

A version of this product is available for the VAX computer.

Price: \$2950

Contact: Charles H. Frye
(503) 245-3793

FRYE SOFTWARE UNLIMITED
7200 S.W. Burlingame Avenue
Portland, OR 97219

POISE Academic History System

Operating System: RSTS

Keywords: • Forms management • Information management

This system provides on-line access to and maintenance of student academic records. Data is transferred from the POISE registration system at the end of each grading period. Calculation of grade-point averages is set up according to institutional specifications. Courses that a student repeats are flagged and can be excluded from GPA calculations. Multipage academic transcripts can be printed selectively or collectively on plain continuous-form paper or on approved preprinted forms. The information printed on each official transcript is grouped by term and year, with semester and cumulative hours earned and attempted and semester and cumulative grade points and grade-point averages. (Transcripts can also be printed in grade or departmental order for evaluation purposes on the VAX.) Details include identification and description of each course, with grade, grade points, and credit hours. The transcript can also include honors and/or degrees earned, the term in which each was earned, as well as transfer credits from other institutions. Detailed transfer information and additional comments can be printed anywhere on the transcript. (The Registration and Academic History systems are combined on VMS; the POISE Registration System is a prerequisite on RSTS.)

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Eva Kinnard
(505) 623-8554

THE POISE COMPANY, INC.
201 North Nevada
Roswell, NM 88201

This comprehensive system accommodates the variations found in the complex school/municipal application. The user defines variable pay cycles as well as deductions and tax shelters, which may be percentages of fixed amounts of gross pay, net pay, or a subset of either. Multiple pay rates of salary amounts may be assigned to any single employee. FICA and other pension plans are calculated on a daily pay rate basis. Distribution of gross wages may be done by percentage of gross pay or by separate pay rates. Multiple distribution accounts may be assigned to each pay rate. The system determines federal, state, and city income taxes, using a table calculation method. Monthly, quarterly, and yearly reports are provided. All interaction is on line.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Edward J. Mackniak or Ray DeVries
(800) 243-3177

SYSTEMS ELEVEN, INC.
Middlebury Hamlet
Middlebury, CT 06762

PLANIT (Programming Language for Interactive Teaching)

Operating System: RT-11

Keywords: • Computer-aided instruction • Simulation

This authoring system, which prepares curricula for computer-administered instruction, is designed for instruction, problem solving, drill and practice, computer adaptive testing, computer-managed instruction, team training, embedded training, automated counseling, and interactive simulations.

PLANIT features:

- Full editing and lesson checkout. Authoring aids include ordered and unordered keywords — word stems, misspelling detection, formula comparison, upper/lowercase options, numeric ranges, automatic rounding and record keeping, immediate record search to result in adaptation of subsequent lesson presentation, enforced timing of student responses, differentiated processing for repeated questions, review and browsing options, and on-line calculation and problem solving.
- A full performance audit trail on all lesson administrations. Records are available for on-line inspection, printed reports, or as a data base for an analysis and reporting system.

276 Education

This system assists school administrators in constructing, testing, adjusting, and finalizing an entire school master schedule. Student registrations provide data on required and elective courses, sections, enrollments, and course conflicts. That information enables the administrator to solve scheduling problems through simulation runs that match course requests to the master schedule.

When the schedule is complete, the following documents can be printed: the master schedule, listing each course, room number, teacher, period, days, enrollments, and empty seats; a schedule for each student; class lists; room and teacher schedules; study hall and homeroom lists; and student biographical information lists.

Course changes, additions, and deletions can be edited as necessary. Data in files can be used to generate grade-reporting records.

* UNIX is a trademark of AT&T Bell Laboratories.

Price: \$5000

Contact: Heather Beckwith
(603) 659-2290

APPLIED SYSTEMS, INC.
84 Main Street
Newmarket, NH 03857

On-Line Registration System

Operating System: RSTS

Keywords: • Scheduling

This package builds student and section files and provides on-line registration, financial aid, and bursaring information. Students may be registered in any manner: high-speed card reader and printer, magtape, low-speed card reader and printer, or CRT. Special inquiry is provided by password to access both student and section information. A complete series of backup programs preserve the data. Various reports are available.

Price: Free

Contact: Peter Hoberman
(212) 220-6334

BRONX COMMUNITY COLLEGE
W. 181 Street & University Avenue
Bronx, NY 10453

Payroll

Operating System: RSTS

Keywords: • Payroll

Multi-Tester System

Operating System: RT-11, TSX-PLUS

Keywords: • Data base management • Information management

Distribution media: 800/1600 bpi magnetic tape, RL02, RX01, RX02.

This system gives and grades tests on any subject matter by maintaining a data base of questions and data, including question type (true/false, multiple choice, text), question category (Introduction to Theater, World History, Calculus II, and others), question text (unlimited number of lines up to size of text file), answer text if a text question (unlimited number of lines up to size of text file), and question's answer (if not a text question). The system can generate screen tests or paper tests. Questions on tests can be preselected or randomly chosen when the test is either printed or given at the screen. Screen tests have a user-definable time limit. Tests given at the screen automatically print out a test result report for the teacher, showing what questions were asked, what the student's answers were, what the correct answers were, the student's score on the test, and the student's test average. The computer can grade the test and update the student's record in the file. Since test questions can be randomly selected at test time, the computer can allow a student to take the same test repeatedly and record only the highest score to date. Or the teacher can allow students to take the test without grading them. Then, when the teacher decides that the students are proficient enough (the system maintains a test average for all the times the test has been taken), the system can be directed to begin grading the test. The system also keeps files on classes of students. The information includes the student's SSN, his/her name, the tests he/she has taken and the high score on each test, and other data.

The versatile Multi-Tester System runs on any PDP-11 using FORTRAN IV or VAX using VAX-11 FORTRAN. The system is written in modular form and is easily modified, since source code is available.

A version of this product is available for the VAX computer.

Price: \$500 - \$700

Contact: Mitchell R. Sowards

(512) 692-0953 (692-3407 after 6 PM Central)

DRAGON SYSTEMS

8746 Wurzbach Road, Suite 203

San Antonio, TX 78240

OMEGA Scheduling System

Operating System: CTS-300, RSTS, RT-11, UNIX* (Version 7)

Keywords: • Decision support • Report writer • Scheduling
• Statistics

Price: \$5 - \$225

Contact: DECUS (see Introduction)

LEADS (Local Education Agency Data System)

Operating System: RSTS

Keywords: • Accounting • Data base management
• Library science

This well-documented general-purpose interactive data base management system is designed to meet the needs of public education. The nature of the data and the data format are determined by the user; no portion of the data base is predetermined or prestructured. Data relationships that represent the complex relationships found in public education can be easily defined by the user. The system includes an especially powerful QUERY language, ISAM indices, and a report-writing language. LEADS software is appropriate for a single large data base containing all student, staff, and financial data and all appropriate data relationships; a large RSTS/E system providing services to several school systems, as each system could have its own independent, data base; a user-built mini-data base for a special application (for example, curriculum materials management); or teaching data base concepts, as each student can manage his or her own data base.

Files are divided into records, which are divided into fields. Records can be related to other records, using pointers and associators. Pointers permit "direct" access to the target record, whereas associators require one or more intermediate steps. Fields can be accessed sequentially or by using an optional ISAM index. Inquiries can be as complex as desired, with little or no regard to the software boundaries of files and fields. Users can make most of their queries with no knowledge of the data structure. A multilevel security system permits school systems to be as restrictive as they choose with their computer-based data.

Available data base application packages (\$1000) include student/staff data base, instructional materials retrieval system (nonbook), financial data base, inventory, scheduling of students, and grading.

Price: \$1000 - \$3000

Contact: Frank DiGiammarino
(617) 862-7500 ext. 117

LEXINGTON PUBLIC SCHOOLS
1557 Massachusetts Avenue
Lexington, MA 02173

* UNIX is a trademark of AT&T Bell Laboratories. ** Instructional Workbench is a trademark of AT&T Technologies, Inc.

Price: \$2500

Contact: AT&T Technologies Account Executive
(800) 828-UNIX

AT&T TECHNOLOGIES, INC.

P.O. Box 25000

Greensboro, NC 27420

LEADS: An Interactive Data Base Management System for Education

Operating System: RSTS

Keywords: • Data base management • Query facilities
• Report writer

The LEADS software gives local school districts an interactive data base management system. The software is appropriate for maintaining large data base containing all student, staff, and financial data and all appropriate data relationships; providing services to several school systems, as each system could have its own independent, secure data base; allowing any user to build a mini-data base for a special application; and teaching data base concepts, as each student can be manager of his or her own data base and operate that data base independently.

The available software includes all the utilities to create and maintain a data base; a powerful, easy-to-use query language; a report writer language; a function package that enables user-written programs to interact with the data base; and documentation intended to fully describe the first four items.

The LEADS software includes few restrictive parameters and several features found in the very good, very expensive commercially available DBMSs. There are, of course, files, which are divided into records, which are divided into fields. Records can be related to other records, using pointers and associators. Pointers permit "direct" access to the target record; associators require one or more intermediate steps. Fields can be accessed sequentially or by using an optional ISAM index. Inquiries can be nearly as complex as desired, with little or no regard to the software boundaries of files and fields. Users can make most of their queries with no knowledge of the data structure. A multilevel security system permits school systems to be as legal as they choose with their computer-based data. DECUS number 11-278.

Note: The *LEADS Overview* manual is available only in hard copy. The writeup and three additional manuals (FUNCT.DOC, LMANGR.DOC, QUERY.DOC) are contained on the magtape and disk.

- The Student Information System is used for entry of the student into the system. The administrator can completely modify this file. This system displays student data, including personal data, class schedules, current-year grades, and attendance. Additionally, a student register and address labeling are available.
- The Student Scheduling System provides all modules for the complete scheduling process.
- The Textbook Rental System allows the identification and accounting of both textbook and lab fees.
- The Grade Reporting System offers all the functions of grade reporting. The scheduling subsystem is a required module for the Grade Reporting System.
- The Attendance System enables complete attendance by class. CRT entry is standard and allows daily attendance input, individual teacher reports, daily attendance summary, excessive-absence report, and absence period summary report.
- The Other System includes miscellaneous reports, such as automatic counselor assignment and feeder school transfers with on-line scheduling.

Price: \$4900 – \$11,900

Contact: David Tortora, President
(317) 872-7200

COMPUTER SYSTEMS CORP.
5540 Rock Hampton Court
Indianapolis, IN 46268

IWB (UNIX* Instructional Workbench Software)**

Operating System: UNIX* (Version 7)

Keywords: • Computer-aided instruction • Report writer

The IWB system, developed by AT&T Bell Laboratories, delivers instructional material in a variety of instructional environments. Each of those settings requires a selection of appropriate system component options and may require modification of the delivered software.

The various IWB system instructional environments can be divided into two major categories: administered, one in which a person coordinates student activity, providing help to the student; and open-access, one in which the IWB system is made available just as any other UNIX* facility would be.

The IWB delivery system consists of two main components: topic selection and topic execution. (A topic is an IWB system unit of instruction.) In addition, components control registration and system access, as well as utility functions such as reports and courseware support.

GRADES (Grading, Recording, and Analyzing Diverse Evaluations of Students)

Operating System: RT-11

Keywords: • Calculation aids • Statistics

This 16-program system not only scores objective examinations but also performs detailed item analyses and determines means, standard deviations, and frequency distributions of tests. The system permits the instructor to modify test scores or to enter grades for essay exams and oral or written presentations. The program maintains a "gradebook" and displays exam scores for posting. GRADES allows the instructor to differentially weigh each student's entries and to establish unique upper and lower limits for each measure prior to calculating the overall course grade for all students. DECUS number 11-338.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

INRAN, OUTRAN: Computerized Question Generation #2

Operating System: RSTS

Keywords: • Computer-aided instruction

This package allows an instructor to generate tests with questions chosen at random from a large data base. For example, a data base of 50 questions can be created, and each test can consist of 20 questions chosen at random from among the 50. Tests and answer keys are printed separately. The programs can create a given number of tests; or, using the Names Program from DECUS number 11-23 or PIP, a student name file can be created. The tests and answer keys will be printed according to the student names in the file. DECUS number 11-32.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

ISAS (Interactive Student Accounting System)

Operating System: RSTS

Keywords: • Information management • Menu handlers
• Report writer • Scheduling

A complete student accounting system for secondary and vocational education, ISAS can be operated by school personnel and has complete data checking to ensure data integrity. The on-line, menu-driven system contains six modules, as follows:

270 Education

The grade verification list ensures correct reporting. Grade distributions by class and by teacher, honor roll, and class standing lists provide administrators with necessary data. The final grade summary and transcript for each student can be attached to permanent records.

* UNIX is a trademark of AT&T Bell Laboratories.

Price: \$3000

Contact: Heather Beckwith

(603) 659-2290

APPLIED SYSTEMS, INC.

84 Main Street

Newmarket, NH 03857

Grade Reporting System

Operating System: CTS-300, RSTS, RT-11

Keywords: • Data collection • Report writer

For grade reporting, teachers use either prepunched student grade sheets or coded prepunched mark-sense cards. Grades may be alphabetic, numeric, or a combination of both. Grades are entered into the computer by either card reader or keyboard terminal.

When all grades have been entered, the computer prints student report cards with grades, course and credit information, teacher name, comments for each course, attendance information (including days suspended), mailing address, schoolwide messages, and cumulative demerits, if desired. Class lists with current and previous grades are printed with selected grade lists, including complete summary lists. The following reports are also generated: grade distribution by course, by teacher, by department, and by school; comment usage report; rank in class alphabetically and numerically; and permanent record labels. The computer automatically updates student records for career grade point average and rank in class. Grade point average may be either unweighted or weighted with up to four weights.

A maintenance program allows for changes and updates by card reader or through the keyboard terminal. A new report card for any student can be obtained at any time.

All programs are tailored to suit the specific requirements of each school. No special forms are required; report formats are flexible.

Price: Available upon request

Contact: C. R. Burgess

(617) 275-6800

QEI, INC.

119 The Great Road

Bedford, MA 01730

- General Ledger/Fund Balances System, a double-entry ledger system meeting Handbook II requirements, goes hand in hand with PBS.

* UNIX is a trademark of AT&T Bell Laboratories.

Price: \$9000

Contact: Heather Beckwith
(603) 659-2290

APPLIED SYSTEMS, INC.
84 Main Street
Newmarket, NH 03857

Grade Reporting

Operating System: RSTS

Keywords: • Calculation aids • Data base management
• Forms management

The report card data base is created from the scheduling file. Utilities exist for changing or deleting existing records and adding new records to the file. Grades are posted on preprinted class lists by teachers and are entered on line. Provisions also exist for gathering grades, using optical scanning sheets. Grades may be alpha + or - , numeric, or a combination of the two. Report cards include a school-wide message, comments, and daily attendance for each class. Grade analysis; D, F, and I reports; honor rolls; grade-point averages; and rank in class are calculated. Permanent record labels and mailing labels are produced at the end of the year.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Edward J. Mackniak
(800) 243-3177

SYSTEMS ELEVEN, INC.
Middlebury Hamlet
Middlebury, CT 06762

Grade Reporting System

Operating System: CTS-300, RSTS, RT-11, UNIX* (Version 7)

Keywords: • Data collection • Information management
• Printing • Report writer

This system organizes and prints student report cards as well as five administrative reports.

Data is typed at a terminal or recorded on mark-sense cards. Student name, number, course, title, teacher, quarter and final grades, exam grades, absences, tardies, dismissals, credits, and so forth are compiled.

FINAID accesses vital financial aid information, providing data on financial aid amounts available to help in formulating individual grants to students. FINAID is integrated with other ARCHON-family systems for admissions (ADMISS), student records (STUDENT), and student billing (BILLS).

A version of this product is available for the VAX computer.

Price: \$7500

Contact: Ila Sunshine

(203) 728-6777

QUODATA CORP.

266 Pearl Street

Hartford, CT 06103

Financial Management for Schools

Operating System: CTS-300, RSTS, RT-11, UNIX* (Version 7)

Keywords: • Accounting • Financial management
• General ledger • Payroll

ASI's financial management systems are designed according to Handbook IIR guidelines and can be used separately or as a comprehensive package.

- Program Budgeting System (PBS) is an encumbrance accounting system with vendor files for automatic vendor check printing and accounting. PBS automatically assigns transaction codes for quick reference regarding any purchase order. PBS's budget preparation aids produce more than 14 reports.

The Budget Status Report, sorted by fund, function, program, department, object, or location, provides year-to-date information.

The Budget Detail, similar to the Budget Status Report, has all transactions against selected budget segments listed with dollar amount of transaction, vendor, check number, and so forth. The Bank Check Register prints information in detail or in simple form. The Transaction Report lists transactions by purchase order number. The Vendor Report lists transactions by vendor.

- Payroll System provides automatic payroll disbursement, including up to 12 deductions in addition to federal withholding tax, FICA, and insurance and pension deductions. The system also prints W-2 forms.
- Payroll System to PBS Crossovers charges payroll checks to various Handbook IIR programs. Under Handbook II mandates, programs are discretely identified. If, for example, the math teacher is also the ski coach, both programs must be charged certain amounts of gross pay from a single paycheck. Those amounts are calculated, and then the system interfaces those apportioned charges between payroll and expenditure data bases.
- Revenue Accounting System is a format for revenue accounting designed for program-oriented budgeting.

The package includes automatic installation programs to enroll students, to drill them in one or all of the topic areas, and to generate reports for teachers. A manager's guide, teacher's manual, student rule book, and a complete curriculum description are also provided.

Students can be enrolled in the Riverdale Math Package and ENGDRIL simultaneously or individually. Reports also can be generated for both programs.

Price: \$2500

Contact: M. Michelson
(212) 549-8044

RIVERDALE COUNTRY SCHOOL
5250 Fieldston Road
Bronx, NY 10471

Engineering Science Program Exchange

Operating System: RSX

Keywords: • Computer-aided instruction • Engineering
• Graphics • Simulation

This library of more than 70 computer-assisted learning packages covers topics in aeronautical, civil, chemical, mechanical, electrical and electronic, and nuclear engineering. Most of the packages are engineering system simulations that a student may investigate by interacting with a computer terminal. The programs are written in ANSI FORTRAN IV or BASIC; some are available in both languages. Many of the FORTRAN programs use graphics display.

A package comprises a machine-readable source code and supporting documentation containing information for the teacher, the programmer, and the student. Most of the FORTRAN packages have been run on a PDP-11/40; some of the BASIC packages require translation to IAS BASIC before they will run.

A version of this product is available for the VAX computer.

Price: £20 - £80

Contact: P. A. Tinson, Exchange Coordinator
44-01-980 4811

ENGINEERING SCIENCE PROGRAM EXCHANGE
Faculty of Engineering, Queen Mary College
Mile End Road
London E14NS
United Kingdom

FINAID

Operating System: RSTS

Keywords: • Data collection • Decision support
• Financial planning • Report writer

ELEX/IMS

Operating System: RSTS

Keywords: • Computer-aided instruction

ELEX/IMS enhances the instructor's course of study, manages individual and small-group instruction, monitors and assesses student progress, and provides instructor feedback. The system is used by secondary school teachers, college faculties, and institutional trainers.

Using an instructional software program, the instructor develops support activities and materials to accompany each segment of the course of study. Checkpoints in the program help the instructor determine the student's understanding of the material being taught. A student who needs remedial assistance or a greater challenge is directed to specific activities to meet his/her individual needs. Such an instructional management system supports the instructor, allows more time for instructor/student contact, and gives the instructor control of the educational process.

ELEX/IMS software uses PDP-11 and VAX systems with print and/or video (CRT) terminals to deliver its programs. The central computer is used for providing objectives and directions for course modules, measuring student performance, and keeping student records. The students use print and video terminals to access assignments and to take self-evaluation exercises and instructors' tests.

A version of this product is available for the VAX computer.

Price: \$12,500 - \$15,000

Contact: Edward E. Boas, Jr., Ed.D.
(609) 654-1100

ELEX, THE EFFECTIVE LEARNING EXCHANGE
P.O. Box 14
Medford, NJ 08055

ENGDRL (English Drill) Package

Operating System: RSTS

Keywords: • Computer-aided instruction

This set of programs provides drill and practice in English punctuation, syntax, grammar, and usage. Problems are generated for each student, providing individualized instruction and/or drill, based on previous performance. Students can proceed through the entire curriculum or receive a review of specific rules. Sessions can serve as drills or as tutorials introducing rules; exercises then reinforce the concepts presented.

DSMTUTOR (Decision Support Modeling and Tutoring)

Operating System: RSTS

Keywords: • Decision support • Simulation • Spreadsheets

This package helps a potential user choose which modeling system, planning language, or spreadsheet suits his/her needs. DSMTUTOR provides a simulation of all the major modeling and electronic spreadsheet packages so that a user can identify the pros and cons of the various packages on a relative basis.

DSMTUTOR educates a non-data processing person in the use of electronic spreadsheets and major modeling systems in order to give him/her an understanding of the differences between the two systems.

A version of this product is available for the VAX computer.

Price: \$2500 – \$10,000

Contact: Phelim Dolan

(604) 734-8822 or 732-9141 Local 320

CANADIAN EUROPEAN SYSTEMS (SYDNEY
DEVELOPMENT CORP.)

P.O. Box 2884

Vancouver, BC V6B 3X4

Canada

EDTCOURSE

Operating System: Independent

Keywords: • Computer-aided instruction • Documentation
• Text management

This course introduces novice and intermediate users to DIGITAL's EDT editor. EDTCOURSE operates best on VT100 or similar terminals. The course includes an introduction to the change mode, a section on the EDT keypad, two subsections on how to use EDT (including line mode), an on-line help facility, and an option that shows the system time and date.

EDTCOURSE is clear, easy to use, and demands less memory storage than DIGITAL's course does. The original source code is written in DIGITAL's BASIC Version 2.2 and is adaptable to other versions.

A version of this product is available for the VAX computer.

Price: \$300 – \$1000

Contact: Christopher C. Biddle

(201) 635-8420

C. C. BIDDLE

740 Fairmount Avenue

Chatham, NJ 07928

COSAP also includes a uniform format for data input and storage for all analyses, the ability to save input data on disk for later analyses, storage for descriptive DATABANK and variable labels, comprehensive data editing and transformation routines, and conversational "help" messages to assist the user who is uncertain of the input requirements for an analysis. DECUS number 11-30.

Note: The manual should be ordered.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

COSAS (Comprehensive On-Line Student Accounting System)

Operating System: RSTS

Keywords: • Accounting • Billing • Financial analysis

COSAS supports a student billing office maintaining up to 12,000 accounts. The system maintains 1000 user-defined transaction codes that regulate all posting activity. All complex accounting analysis is under software control, thus making operating procedures easy to learn and use.

Features of COSAS include flexible search parameters; retention of all transaction detail on each student account for on-line query; 1-time school semester parameter setup; fast posting of transactions and recurring entry posting feature; transaction edit and deletion; individual account audit and aging analysis; registration financial clearance; individual statement printout for any billing period; receipt/voucher/check number lookup; simultaneous access of 15 offices, with 15 users per office; autoscheduler for non-prime time operations; batch posting interface; external general ledger interface; comprehensive audit trails; variable output site assignment; more than 20 reports; a centralized data base; compact file structure (15 mgb will accommodate all programs and data sets, including 160,000 transactions and biographical data for 3000 students); system status utility for monitoring posting activity; remote diagnostics and support; and self-diagnostic utilities.

A version of this product is available for the VAX computer.

Price: \$3000 - \$5000

Contact: Jim A. Wilson, Systems Analyst

(205) 837-1630 ext. 215

OAKWOOD COLLEGE

Huntsville, AL 35896

The CLASS system is a fully integrated college-level administrative software system built around the IMPRS relational data base management system. CLASS consists of the following modules: Admissions, Financial Aid, Registration and Records, Financials, Student Accounts Receivable, and Alumni Development.

A version of this product is available for the VAX computer.

Price: \$40,000 – \$60,000

Contact: Elvin E. Smith or Forrest E. Weddle

(913) 782-8544

RUF CORP.

1533 E. Spruce

Olathe, KS 66061

Compendium of (DECAL) CAI Programs

Operating System: RSTS

Keywords: • Computer-aided instruction

Memory required: 10K-word user area.

Each CAI lesson represents the efforts of two weeks of intensive study during a workshop on such topics as the development of behavioral objectives, orientation related to programming instruction, and extensive work on coding lessons for computer presentation. The CAI lessons were prepared by Berea City School District teachers and administrators who participated in a Computer Staff Development Workshop in July 1975. DECUS number 11-210.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

COSAP

Operating System: RSTS

Keywords: • Documentation • Mathematics

• Software utilities • Statistics

Memory required: 8K.

This integrated system of more than 24 programs uses most of the features (virtual core, matrix, facilities, and so on) of BASIC-PLUS. COSAP performs 12 statistical analyses: elementary statistics, histogram construction, student's tests, rank correlation, multiple Pearsonian product-moment correlation, simple regression, multiple regression, polynomial regression, step-wise regression, discriminant analysis, factor analysis, and probit analysis.

CLASS — Educational Payroll System

Operating System: RSTS

Keywords: • Employment • Payroll • Report writer • Taxes

This payroll package for educational institutions provides the accurate and timely information required for writing checks and for preparing federal, state, and institutional reports.

A version of this product is available for the VAX computer.

Price: \$3500 — \$7000

Contact: Elvin E. Smith or Forrest E. Weddle

(913) 782-8544

RUF CORP.

1533 E. Spruce

Olathe, KS 66061

CLASS — IMPRS

Operating System: RSTS

Keywords: • Data base management • Information management
• Programming tools • Query facilities

IMPRS is a relational data base software package that allows both technical and nontechnical users to establish and maintain relational data base systems, interactively generate sophisticated reports, and write fourth-generation high-level programs to support application systems.

IMPRS is designed to increase programming productivity through the use of a complete data-manipulation language. IMPRS also supports several query language interface modules that allow nontechnical users to browse through the data base and quickly produce reports. IMPRS is fully documented and comes with a full complement of utility programs to support the data base and to provide additional flexibility to the user.

A version of this product is available for the VAX computer.

Price: \$10,000 — \$20,000

Contact: Elvin E. Smith or Forrest E. Weddle

(913) 782-8544

RUF CORP.

1533 East Spruce

Olathe, KS 66061

CLASS (College-Level Administrative Software System)

Operating System: RSTS

Keywords: • Data base management • Financial management
• Information management • Management

A version of this product is available for the VAX computer.

Price: \$4000 - \$8000

Contact: Elvin E. Smith or Forrest E. Weddle

(913) 782-8544

RUF CORP.

1533 E. Spruce

Olathe, KS 66061

CLASS — Educational Financial Aid System

Operating System: RSTS

Keywords: • Data base management • Financial analysis

This student financial aid management system for colleges and universities ensures on-line control of the financial aid process. The aid administrator can do budgeting, awarding, award notification, acceptance, cancellation, and disbursement of funds. The Relational Data Base Management System generates reports to efficiently manage financial aid monies.

A version of this product is available for the VAX computer.

Price: \$3000

Contact: Elvin E. Smith or Forrest E. Weddle

(913) 782-8544

RUF CORP.

1533 E. Spruce

Olathe, KS 66061

CLASS — Educational Financial System

Operating System: RSTS

Keywords: • Audit • Financial management

This encumbrance system includes budget, cash receipts, journal entries, and general ledger. The system provides clear and complete audit trails for maximum fiscal accountability. All financial reporting is controlled by the designated user offices.

A version of this product is available for the VAX computer.

Price: \$3500 - \$7000

Contact: Elvin E. Smith or Forrest E. Weddle

(913) 782-8544

RUF CORP.

1533 E. Spruce

Olathe, KS 66061

CLASS — Education Billing and Receivables System

Operating System: RSTS

Keywords: • Accounts receivable • Billing

This student billing and receivables system generates billing and statements. Tuition and fee expenses are calculated automatically, based on specifications defined by the institution. Student billing can be handled by individual bills generated at registration and by group generation of monthly statements.

A version of this product is available for the VAX computer.

Price: \$3500 – \$7000

Contact: Elvin E. Smith or Forrest E. Weddle

(913) 782-8544

RUF CORP.

1533 E. Spruce

Olathe, KS 66061

CLASS — Education Personnel System

Operating System: RSTS

Keywords: • Employment • Personnel

This personnel system monitors job applicants and tracks employees from hiring to termination date. All pertinent personnel information is tracked from the time of application through employment to termination.

A version of this product is available for the VAX computer.

Price: \$2500 – \$5000

Contact: Elvin E. Smith or Forrest E. Weddle

(913) 782-8544

RUF CORP.

1533 E. Spruce

Olathe, KS 66061

CLASS — Education Registration System

Operating System: RSTS

Keywords: • Information management • Scheduling

This on-line registration system provides inquiry and updating of student information for the registrar. Through single- or multi-terminal facilities, preregistration, registration, and add/drop functions are effectively performed. The registrar can generate, update, and print course offerings, course-status reports, closed-class listings, class rosters, and student schedules during the registration process. The timely and efficient processing of demographic data; information for federal, state, and institutional reporting; grade reports; transcript labels; and honor listings are an integral part of the Registration System.

A version of this product is available for the VAX computer.

Price: \$2500 – \$5000

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544

RUF CORP.
1533 E. Spruce
Olathe, KS 66061

CLASS — Education Admission System

Operating System: RSTS

Keywords: • Data base management • Information management
• Recruiting

This package enables the admissions office to respond immediately to inquiries, to process application documents, and to continually provide current information for the prospective student. Information on the type and number of inquiries, analysis of recruiting efforts, and profiles on accepted students are available as required.

A version of this product is available for the VAX computer.

Price: \$3500 – \$7000

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544

RUF CORP.
1533 E. Spruce
Olathe, KS 66061

CLASS — Education Alumni/Development System

Operating System: RSTS

Keywords: • Data base management • Mailing lists
• Recruiting • Report writer

This alumni/development system provides a base for soliciting, acknowledging, and generating mailings for any group. The Alumni/Development System can produce personalized letters, solicitations, gift acknowledgments and receipts, and mailing labels for alumni or donors. A variety of reports can be generated by using the system's reporting capabilities.

A version of this product is available for the VAX computer.

Price: \$2500 – \$5000

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544

RUF CORP.
1533 E. Spruce
Olathe, KS 66061

CAST (Computer-Assisted Self-Training System)

Operating System: UNIX* (System III, System V, Version 7)

Keywords: • Computer-aided instruction • Programming tools

CAST is an authoring system for the development, management, and execution of computer-aided instruction (CAI) courseware. The language is designed for inexperienced and experienced designers of computer-assisted and computer-managed instruction.

CAST's vocabulary is a superset of the PILOT language. Special CAST features include the use of split-screen text, limited graphics, the use of any UNIX* process, the use of other scripts as subroutines, the recording of student performance for later analysis, enhanced computational facilities, the generation of random numbers, direct use of external soft-copy documentation in a lesson, and enhanced storage/retrieval capabilities for program variables. CAST allows for pauses (think time) and automatic recueing when no answer is obtained within a definable interval. Multiuser installations are supported. The educational applications of CAST are numerous. CAST is designed to support business and industrial training.

A minimum memory of 64K is required. The system is written in C language. Custom installation is accomplished through telecommunications. CAST is terminal independent and can be used with a mixture of terminals possessing cursor positioning commands. Hard-copy terminals are also supported. TERMCAP is used when available.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$400 - \$9950

Contact: Maria Rich

(315) 337-1000

MASTER CLASS CORP.

1721 Black River Boulevard

Rome, NY 13440

CLASS — Education Accounts Payable A/P System

Operating System: RSTS

Keywords: • Accounts payable • General ledger

This total accounts payable system with complete interface to the general ledger provides a daily listing of checks written; a check balance report by year, month, status, and check number; a check audit report by bank, year, and selected months; a check register sequence by check number or voucher number; a check report by paid date; report and status of voided checks; a voucher proof listing; open-voucher, paid-voucher, and missing-voucher reports; complete voucher registers by company and division; voucher distribution to the general ledger; and a vendor name and address list.

Project architect reports on weekly progress and delays

Outputs: Campus planning committee summary reports

6. Student Facility Demand Projections

Inputs: Per capita use of recreational and commercial facilities

Outputs: Aggregate demand, space requirements, and construction delays

Price: \$1500 – \$2500

Contact: David Bradwell, Ph.D., President
(415) 479-4980

DAVID BRADWELL AND ASSOCIATES, INC.
880 Las Gallinas Avenue
San Rafael, CA 94903

CASANOVA (Computer-Assisted Instruction in Analysis of Variance)

Operating System: RSTS

Keywords: • Computer-aided instruction • Statistics

Memory required: 8K 16-bit words (overlaid).

The CASANOVA package of programs and text files concentrates on teaching the computations involved in ANOVAs without confining the instructor to a particular orientation or text. The usefulness of the package rests on the assumption that performing ANOVA computations with the aid of the computer will contribute to the user's understanding of the logic behind the computations. CASANOVA does the computations quickly and provides feedback to partial solutions in order to monitor the student's performance. CASANOVA users should have had some introductory study of statistical inference, hypothesis testing, and 1-way ANOVA before using the package.

The package consists of 21 BASIC-PLUS programs and 18 virtual core files containing text of instructions and help messages for users. Documentation consists of a student's manual and an instructor's manual. DECUS number 11-222.

Restrictions: The package requires about 500 blocks of disk space for its own source and text files and additional (variable) space for users.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

estimation; psychometric methods for test construction, item analysis, item bias analysis, test equating, factor analysis, scaling, and cluster analysis; and a facility for computing desired characteristics of standard statistical distributions and such special distributions required by the methods listed above.

Price: \$600

Contact: Melvin R. Novick

(319) 353-6705

THE UNIVERSITY OF IOWA

356 Lindquist Center

Iowa City, IA 52242

CAMPUS (Campus Planning Package)

Operating System: RT-11

Keywords: • Construction • Electrical • Simulation
• Transportation

1. Cross-Over Matrix

Inputs: Student course hours x major subject x division; faculty/student ratios; space standards (classrooms, laboratories, offices); average construction costs

Outputs: Departmental student + staff FTE (full-time equivalent); annual space increments x space type; future construction outlays

2. Student Housing and Transportation Projections

Inputs: Questionnaire responses and/or national averages regarding housing and transportation choices

Outputs: Housing demand x housing type; parking demand, transit loading

3. Faculty and Staff Housing and Transportation Projections

Same as 2. above

4. Facilities Master File

Inputs: Detailed building inventory, including type, size, cost elements (plumbing and electrical, floor area ratios, and design and construction staff)

Outputs: Inventory of existing buildings
Preliminary specifications of future buildings and construction outlays

5. Campus Building Project Scheduling Program

Inputs: Definition of campus construction process in 8 phases and 200+ actions

The flexibility of the Master Schedule Builder allows the school to experiment with singletons, partial and trial student scheduling, and other scheduling techniques. The school may add coded parameters to the master schedule, such as alternates, linked courses, an exclusive semester key, priorities, and optimum and maximum seating.

After the master schedule has been built, students are added in a scheduling run. The computer automatically calculates a scheduling weight for each student, based on the year of graduation; the total of the course-scheduling weights; and the difficulty of the selected schedule. The computer schedules a student's courses; required courses may be scheduled first for each student.

A maintenance program allows changes to the master schedule. Once the final scheduling run is accepted, any changes made to a student's schedule are automatically added to class rosters, and master schedule listings and a new student schedule may be printed.

Multiple reports are available after scheduling — pupil schedules, teacher and room schedules, teacher and room availability, student conflicts, courses in conflict, pupil availability, study hall lists, and class rosters.

The QEI Scheduling System allows vocational technical school scheduling. The program is tailored to meet the specific requirements of each school.

Price: Available upon request

Contact: C. R. Burgess
(617) 275-6800

QEI, INC.

119 The Great Road
Bedford, MA 01730

CADA-1983 (Computer-Assisted Data Analysis Monitor)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Data base management • Graphics
• Menu handlers • Statistics

CADA, a menu-driven conversational statistical package employing modern methods of exploratory and Bayesian confirmatory data analysis, is a full relational data base management system providing for entry, storage, editing, and transfer of data sets and communication with external storage devices and laboratory computers. The package provides modern graphic displays of 1- and 2-dimensional data sets; a variety of nonconjugate prior-distribution Bayesian analysis; assessment procedures for determining Bayesian prior probabilities and utilities, based on coherence testing procedures; various quota-free and restricted selection decision-theoretic paradigms; full-rank ANOVA and MANOVA; modern methods of Bayesian simultaneous

The Monthly Attendance Report lists the daily attendance status, monthly attendance summary with days in session and percent present for the month, entry or withdrawal code, and year-to-date attendance totals with days in session and percent present for the year for each student. The Monthly Attendance Report also prints the daily and monthly attendance totals, showing average daily membership, average daily attendance, and percent present for each year of graduation. The Yearly Attendance Summary Report shows monthly and year-to-date attendance totals with averages and percent present for the whole school.

Input may be either through a terminal device or by prepunched mark-sense cards. Attendance may be either by the 5-week period or by the calendar month. A maintenance program is provided to correct attendance information at any time. Maintenance may also be on line or through the card reader. The monthly report is generated automatically from the last corrected daily attendance input.

Attendance categories include present, absent, tardy, dismissed, absent/tardy, absent/dismissed, tardy/dismissed, nonmember, entered, withdrawn, and other or suspended.

Price: Available upon request

Contact: C. R. Burgess
(617) 275-6800

QEI, INC.
119 The Great Road
Bedford, MA 01730

Automated Student Scheduling System

Operating System: RSTS

Keywords: • Scheduling

This interactive on-line student scheduler helps school personnel build a master schedule. Course and teacher catalog and student requests are entered through a terminal device or a card reader using prepunched mark-sense cards. The simple tally, conflict matrix, and various listings are produced as many times as desired. Maintenance programs allow for individual and group changes.

Beginning with singletons, the Master Schedule Builder automatically groups courses by period to avoid conflicts. The user chooses the desired period and locks the course in place. The user then "builds" the next course, groups of courses, or all remaining singletons around the first course, continuing until all singletons have been added. The doubletons are added, and the process is repeated until all the courses have been added and assigned periods. A Potential Conflict Report shows student, teacher, and room conflicts by period for each course and may be run at any time.

Price: Available upon request

Contact: Edward J. Mackniak
(800) 243-3177

SYSTEMS ELEVEN, INC.
Middlebury Hamlet
Middlebury, CT 06762

Attendance Reporting System

Operating System: CTS-300, RSTS, RT-11, UNIX* (Version 7)

Keywords: • Data collection • Information management
• Report writer • Scheduling

This system manages attendance data with a minimum of time and paperwork. A master file maintains complete biographical information on each student, including grade level, year of graduation, home-room, and transportation information; codes to indicate special education, new, transferred, and tuition students; days absent, tardy, or dismissed; and dates of entry and withdrawal.

The Attendance Register lists individual attendance records as well as summary information of total absences, dismissals, and so forth. The Code Report provides lists of students coded by entry or withdrawal during particular calendar periods, those who transferred out of state, and related information.

The Attendance Total Matrix is designed to meet state attendance reporting requirements and provides category totals for checking the accuracy of reporting procedures.

* UNIX is a trademark of AT&T Bell Laboratories.

Price: \$2000

Contact: Heather Beckwith
(603) 659-2290

APPLIED SYSTEMS, INC.
84 Main Street
Newmarket, NH 03857

Attendance Reporting System

Operating System: CTS-300, RSTS, RT-11

Keywords: • Data collection • Report writer

This system provides for both daily and monthly attendance reporting. The Daily Attendance Report is an "exception" report, listing only the absent students and their telephone numbers. This report is updated later in the day with the appropriate changes to the student's status, and a new report is generated.

ARCHON: STUDENT

Operating System: RSTS

Keywords: • Data base management • Scheduling

This student information and on-line registration system integrates information on total enrollment with data management to provide great flexibility. Competitive and financial pressures dictate increasingly sophisticated management reporting. STUDENT answers with fast on-line inquiry and a do-it-yourself report generator. STUDENT strikes a balance between computer-oriented repetitive tasks and the requirement for human intervention.

Features include on-line terminal entry, create-it-yourself reporting, customized data definitions, preregistration any time, course-over-flow checking, class lists on request, student schedules, grade reports, transcript labels, teacher workloads, class rank by year, nondeposited students, student housing director, and a menu-driven system.

A version of this product is available for the VAX computer.

Price: \$8800

Contact: Ila Sunshine

(203) 728-6777

QUODATA CORP.

266 Pearl Street

Hartford, CT 06103

Attendance

Operating System: RSTS

Keywords: • Scheduling

The Attendance packages are created from the scheduling file and interface with scheduling and registration files. Period-by-period absences, tardies, and dismissals in user-defined categories are recorded. Daily attendance lists show the student name, the periods absent, the initials of the teacher recording the absence, and the total number of days for each period. Total absences, total consecutive absences, and half-day absences are calculated and reported. A counselor's report lists all classes missed for every student assigned to the counselor. A summary list for each teacher shows names and dates of absences for each period taught by the teacher. Monthly and yearly end summaries print total dates and day-of-week absences for every student in every period. Input is from cards or screen. The cumulative figures are automatically updated as information is entered. Inquiries by day display the student's schedule and indicate, after each period, whether the student was tardy, suspended, absent, and so on. Utilities exist to do file maintenance and updating.

A version of this product is available for the VAX computer.

interactive terminal orientation permits the combination of minimum personnel involvement with timely control of financial reporting. Features include on-line data entry and inquiry, flexible report generation, single entries that charge many bills, accounts receivable aging reports, student account history on file, user-defined transaction types, default answers to speed data entry, transaction batch control, and linkage to financial accounting system. BILLS interfaces with the ARCHON: FRS Financial Reporting System.

A version of this product is available for the VAX computer.

Price: \$8280

Contact: Ila Sunshine

(203) 728-6777

QUODATA CORP.

266 Pearl Street

Hartford, CT 06103

ARCHON: FUND-AL

Operating System: RSTS

Keywords: • Information management • Mailing lists
• Recruiting • Report writer

The FUND-AL system harnesses the power of data management and combines the flexibility of letter processing to provide a unique fund-raising tool. FUND-AL supplies the personal touch necessary in cultivating an institution's or organization's supporters. It provides solutions to the problems of keeping information on donors and friends current and helps control valuable gift-giving processes.

This system records all important data relative to pledges, payments, and gifts. It also provides current reports on selected prospects, produces pledge reports, and stores biographical details necessary to maintain a close relationship with valuable contributors. A generalized reporting system makes it possible to sort and select small subgroups of donors and prospects. On-line terminals assist in keeping all financial and biographical data current. Inquiry may be made to determine the current status of any individual, and an unlimited number of addresses can be stored for each prospect donor.

A version of this product is available for the VAX computer.

Price: \$14,300 - \$56,300

Contact: Ila Sunshine

(203) 728-6777

QUODATA CORP.

266 Pearl Street

Hartford, CT 06103

Academic Management Systems

Operating System: RSTS

Keywords: • Scheduling • Statistics

The packages include school scheduling, maintenance of grade files, records of attendance, and records of objective-test scores. All programs are menu driven, and on-line help is provided. A bell calls attention to questionable input. Any change affects all relevant files. This system was developed over a period of nine years by the director of studies at a major school. A manual is provided. Letters of reference are available from other schools using the packages.

Price: \$3500 - \$6000

Contact: Dr. Wade C. Stephens
(609) 896-1844

ACADEMIC MANAGEMENT SYSTEMS
c/o The Lawrenceville School
P.O. Box 6008
Lawrenceville, NJ 08648

ARCHON: ADMISS

Operating System: RSTS

Keywords: • Recruiting • Query facilities

ARCHON: ADMISS tracks prospects by automatically processing the prospect through the admissions stages. Features include on-line query and update, automatic followup and tracking, five value levels for prospects, nontechnical operations, flexible report formats, ad hoc reports, letter-quality printing, flexibility to meet changing requirements, personalized letters, user-defined value levels, controlled feedback, and simultaneous input and output.

A version of this product is available for the VAX computer.

Price: \$6650

Contact: Ila Sunshine
(203) 728-6777

QUODATA CORP.
266 Pearl Street
Hartford, CT 06103

ARCHON: BILLS

Operating System: RSTS


Keywords: • Accounts receivable • Billing

ARCHON: BILLS solves the ongoing need for controlling funds owed to the institution by the student population or membership. This system provides flexibility to meet unique requirements, ease of use by nontechnical personnel, and immediate access to information. An

Education



RULES FOR TEACHERS — 1915

1. Not to get married.
 2. Not to keep company with men.
 3. To be home between the hours of 8 P.M. and 6 A.M. unless in attendance at a school function.
 4. Not to loiter downtown in ice cream stores.
 5. Not to leave town at any time without permission of the chairman of the board.
 6. Not to smoke cigarettes.
 7. Not to get in a carriage or automobile with any man, except her father or brother.
 8. Not to dress in bright colors.
 9. Not to dye her hair.
 10. To wear at least two petticoats.
 11. Not to wear dresses more than two inches above the ankle.
 12. To keep the schoolroom neat and clean: (a) sweep the floor at least once daily; (b) scrub the floor at least once weekly with hot water and soap; (c) clean the blackboards at least once daily; (d) start the fire at 7 A.M. so the room will be warm by 8 A.M.
- 

Inventory management allows the on-line allocation of items at order entry. The availability of inventory can be checked on line. Items may be listed by case, bottle, or vintage. The system also provides physical inventory cycle counting and comparison.

Pricing features are structured and controlled by customer type. The system handles post-off pricing, allows on-line entry of cash receipts, and sets markups and split-case charges. The system also allows on-line credit checks and updates.

All reports show complete item description and include sales distribution by customer, such as retail, restaurant, and so on; daily, monthly, or yearly sales history; depletion reports for each supplier; stock status; state gallonage for taxes; detail or summary receivables aging; and commission by salesperson.

A version of this product is available for the VAX computer.

Price: \$15,000 - \$30,000

Contact: William E. Smith, Jr.

(203) 634-4434

WORLDWIDE DATA SYSTEMS, INC.

44 Gypsy Lane

Meriden, CT 06450

XK-11

Operating System: CTS-300, RT-11

Keywords: • Accounts receivable • Inventory • Order entry
• Wholesale

Memory required: 64K. Distribution media: RL01, RL02.

This on-line system, written in DIBOL, maintains customer history. The system includes inventory, accounts receivable, and order entry. Customizing is available.

A version of this product is available for the VAX computer.

Price: \$5000 - \$25,000

Contact: Dr. Ralph Keul

(515) 289-2403

COMPUTER ADVICE, INC.

7372 N.W. 21 Street

Ankeny, IA 50021

246 Distribution

The list sorts products and quantities ordered by a zone code. Orders are picked and the invoice correction program is run, which allows changes in quantities or products to be made. Lines may be added or deleted. Out-of-stock items may be back ordered or canceled, or substitutions may be made.

The invoice printing program produces the corrected invoices, extends and foots all the invoice lines, and automatically calculates sales tax. Past-due customers are flagged and will not continue without override authority. That also relieves inventories, updates accounts receivable data, and collects data for various reports to be generated later. The system also contains an over-the-counter sales program and a program to enter cash receipts, adjustments, discounts, and merchandise returns.

Pricebooks, inventory status reports, inventory evaluation, product movement, gross profit reports (by product, customer, and salesperson), sales analysis, and accounts receivable information are produced. Customer statements are produced bimonthly. To save expensive statement forms, statements for customers with zero credit balances are printed on stock paper and kept for the company's records. Those statements are not mailed to the customer. An aging report is printed with each statement run.

A version of this product is available for the VAX computer.

Price: \$24,000 +

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

Wine and Beverage Distribution System

Operating System: CTS-300

Keywords: • Accounts receivable • Inventory • Order entry
• Wholesale

This system for wine and beverage wholesalers consists of customer order processing, inventory management, and accounts receivable. This package is written in DIBOL.

Customer order processing allows on-line entry and editing of orders. The system allows for discounts and the distribution of orders from multiple warehouses. Back orders may be automatically generated. Presell and future orders may be entered for shipment on a certain date.

Price: 10,000 +

Contact: Larry L. Alexander
(214) 934-0031

FULTON BUSINESS SYSTEMS
4950 Keller Springs Road #280
Dallas, TX 75248

Wholesale/Liquid Product Inventory

Operating System: RSTS

Keywords: • Billing • Inventory • Petroleum • Wholesale

This system provides complete product control from purchase to sale. Inventory is tracked by storage location, by vendor, and by transportation vehicle (truck, barge, ship, and so on) with true, layered FIFO costing. "Throughput" and "exchange" agreements are easily monitored, including temperature-corrected gallons. Sales are easily posted to this system, which allows for a highly sophisticated pricing structure, including freight charges; temporary and voluntary allowances; and federal, state, and municipal taxes, including gross receipt taxes, prompt pay discounts, and more.

A history of price and discount changes is maintained, thus allowing back-posting of deliveries without looking up previous price data. Also, future price changes may be entered. The system interfaces with the ADD Accounts Payable and ADD Fuel Oil Accounting systems to prevent inventory/billing (payables) mismatches and to track retail disposition of product, respectively.

A version of this product is available for the VAX computer.

Price: \$10,000 - \$20,000

Contact: Bruce A. Bott, President
(201) 584-4026

ADVANCED DIGITAL DATA, INC.
354 Route 206
Flanders, NJ 07836

Wholesaler's Software System

Operating System: RSTS

Keywords: • Billing • Order entry • Point of sale
• Wholesale

Distribution media: 9-track 800/1600 bpi magnetic tape, RK07, RL01, RL02.

This system is built around entry and invoicing systems. A customer number is entered, and the name and address are displayed for verification. Then products and quantities are entered. Prices need not be entered; they will be automatically picked up from the product master file. After orders have been entered, a picking list is produced.

This comprehensive interactive system for managing a small to medium-size wholesale business consists of nine modules: accounts receivable, customer files, credit memos, inventory control, order entry, purchasing (reorder), sales analysis, sales tax reporting, and vendor files.

Specific features include five levels of cost-plus pricing; broken-unit pricing; fixed-contract pricing; week-to-date, month-to-date, year-to-date, and prior-years sales analysis by salesperson and customer; reorder by vendor (min/max); add, change, and delete to inventory; daily reports on sales, payments, and credits; advertising message on invoice; sales, cost, gross margin, and percentages for individual customers and inventory items; inventory evaluation and physical counts; management/salespeople's price/cost lists; and more.

The system was originally designed for a cigarette, tobacco products, and general merchandise wholesaler.

The system provides user-friendly procedures, on-site training, and continuous support. WHOLESALE-11 is written in DIBOL. Program modification and customization are available. A sample packet containing reports, forms, and so on, is available. Dealer inquiries are encouraged.

Price: \$9000 - \$13,000

Contact: Robert L. Metzger, President
(504) 542-1479

DIGITAL COMPUTER SYSTEMS, INC.
31 Darrell Drive
Hammond, LA 70401

Wholesale Jewelry Management

Operating System: CTS-300, RT-11

Keywords: • Billing • Inventory • Metals

This totally integrated, automated system for the jewelry distribution industry permits pricing on gold inventory items to be adjusted at any time, using an increment factor multiplied by the current price of gold. The price list and the inventory level are continually updated and may be viewed on the screen. Items can be maintained in inventory by units, length, and pennyweights. Invoicing can be done in batch mode or on demand, as required.

The system is fully integrated to allow complete interaction among all the functions. The total package includes order entry, inventory, accounts receivable, accounts payable, payroll, and general ledger.

This product is easy to use and requires only minimal knowledge of basic business procedures. No data processing experience is required. Complete training and documentation are provided.

A sales tax code file automatically calculates sales taxes when orders and cash sales are entered. Extensive sales tax reporting features are provided at state, city, and county levels. Cash sales are entered separately from charge transactions. The cash sale program allows for the entry of cylinder records, which permits the customer's file to be updated for rental or demurrage.

The system can handle balance-forward and open-item-type customers. Orders — or charge invoices, if the small-parts inventory system is not to be used — can be entered, as well as shipping/returning cylinders in the same process. Open orders may be queried, added to, changed, or deleted prior to billing. Changes to line items or cancellations automatically result in adjustments to inventory. Noninventory sales and debit or credit memos are entered through regular sales entry and editing. The system prints the Sales Journal, including credit and debit memos.

The system allows interactive entry and editing of cash receipts. Non-A/R cash received may also be entered through cash receipts. A general ledger account number must be entered to indicate distribution.

The purchasing module provides for state-of-the-art forecasting tools: graphics demand forecasting with the ability to employ what-if analysis based on simple moving average, weighted moving average, exponential smoothing, and time-series analysis forecasting of EOQ and reorder point calculations. Consideration is given to the cost of holding and of ordering inventory, cost of lost sales, and time to deliver. Other important tools, such as standard deviation, increase the value of this important management resource.

Other systems include BARZ for tracking cylinders by serial number. This technology provides an efficient and reliable method of asset management, as well as cylinder maintenance management.

A version of this product is available for the VAX computer.

Price: \$10,000 — \$50,000

Contact: Stan Hoggatt, Market Manager

(406) 652-2620

COMPUTERS UNLIMITED

2407 Montana Avenue

Billings, MT 59101

WHOLESALE-11

Operating System: CTS-300, RT-11

Keywords: • Accounts receivable • Inventory • Order entry
• Wholesale

Distribution media: 9-track 800 bpi magnetic tape, RK07, RL01, RL02.

This fully integrated package for heavy-duty parts distributors includes order entry, point-of-sale invoicing, service shop billing, inventory control, kit building and explosion, core accounting, customer price control, sales and profit analysis, back-order and special-order control, purchasing, accounts receivable, accounts payable, payroll, and general ledger. Special features of the system include automatic cross-referencing from old or competitive part numbers to the current part number in use, on-line substitution of an almost unlimited number of part numbers, automatic filling of back orders and special orders, and automatic customer pricing with the ability to "lock" special discounts into the system by specific vendor or by part number.

WDS/2 supports multiple branches and multiple companies on the same computer system. Each branch can view and order inventory from every other branch. The purchasing module allows the home office to control purchases by vendor and, if desired, to force branches to obtain their merchandise from the company warehouse.

WDS/2 is written in BASIC-PLUS-2 and uses the RMS-11 Record Management System.

A version of this product is available for the VAX computer.

Price: \$25,000 - \$50,000

Contact: J. Richard Schien
(217) 854-4721

KARMAK SOFTWARE & COMPUTER SERVICE
550 North Broad
Carlinville, IL 62626

Welding Distributor System — TMS BASIC +, 2 + 2, and Super +

Operating System: CTS-300, RSTS

Keywords: • Accounts receivable • Inventory • Order entry
• Purchasing

The Welding Distributor System combines small-parts (supplies) inventory, cylinder inventory control, and accounts receivable systems. Because of the modular design of the programs, the small-parts inventory system is optional.

Customer Account Inquiry displays financial and cylinder activity. The customer can be accessed by name or account number. Cylinder Inquiry provides a method of researching the status of cylinders maintained by serial number.

Price: Available upon request

Contact: John Logan

(503) 297-1627

DENNISON EASTMAN CORP.

6400 S.W. Canyon Court

Portland, OR 97221

Warehousing/Order Entry/Inventory/Purchasing

Operating System: RSTS

Keywords: • Inventory • Order entry • Purchasing
• Warehousing

The ADD Warehouse Distribution system is a complete order entry/invoicing/inventory and purchase order system designed to meet the needs of a wide variety of TBA, motor, and lube oil distributors, as well as general warehouse operators. This full inventory management system allows multiple warehouse locations; inventory valuation based on FIFO or LIFO methods; cost, profit, and reorder analysis; and more. The order entry module ensures automatic and accurate pricing based on practically any volume or special discount structure, optional generation of picking lists, truck loading tickets, bills of lading, and invoices. Orders remain open until delivery, when adjustments and returns can be included. Point-of-sale applications are handled easily by allowing automatic generation of invoices at order entry time. The purchase order control module automatically produces purchase orders based on user-defined reorder points and/or sales history; when goods are received, they are automatically updated into inventory, and exception reports are generated if necessary. In addition, the system is fully integrated with ADD's Accounts Receivable package for credit control and more.

A version of this product is available for the VAX computer.

Price: \$5000 - \$15,000

Contact: Bruce A. Bott, President

(201) 584-4026

ADVANCED DIGITAL DATA, INC.

354 Route 206

Flanders, NJ 07836

WDS/2 (Warehouse Distributor System)

Operating System: RSTS

Keywords: • Accounting • Inventory • Order entry
• Warehousing

Distribution medium: 9-track 1600 bpi magnetic tape.

The finished-goods module describes items and lists supplier numbers, reorder points, backlog of orders, quantity of order, due date, beginning inventory, present stock level, and up to 10 prices and price breaks. This module also contains the booking sales and cancellation and return data used by the sales analysis module.

The sales analysis and commissions module allows you to analyze sales by bookings and shipments by week, month, and year. The module keeps payable commissions on a file, which is updated automatically from accounts receivable and order processing. The module also clears those commissions from the file and produces a report by salesperson, by region, showing sales, bookings, and sales quotas by the month, previous year, and year to date. The module can also clear weekly, monthly, and yearly accumulators from the module.

A cost-of-goods sold report shows the cost of each item sold, based on a standard cost obtained from the finished-goods master file. Those costs may be adjusted prior to printing a final report. A franchise tax data file, which is updated automatically from order processing, produces a franchise tax report. A sales tax file is updated automatically from order processing and produces a report of items with sales tax. A product sales history report provides a listing either by product or by customer of each item sold, to whom, how many, what price, and when.

A version of this product is available for the VAX computer.

Price: \$2000 - \$5500

Contact: Zane R. Oaks, Marketing Manager
(513) 890-1800

PROJECTS UNLIMITED, INC.

P.O. Box 14538

Dayton, OH 45414

Warehousing Systems

Operating System: RT-11, TSX-PLUS

Keywords: • Information management • Inventory • Retail
• Wholesale

Inventory control through the use of bar-coded tags or labels virtually eliminates human errors. The system keeps track of inventory—when and where received, when and where to be shipped—costs associated with the inventory item, and information fields (weight, dimensions, and so on). Management and daily reports are available. The system is designed for wholesale or retail.

The system performs cash-requirements report analysis by vendor; user-formatted financial statements, including a balance sheet, financial statement with budgets (P&L) and last-year comparatives, individual financial statements by profit center, and total company financial statements.

A version of this product is available for the VAX computer.

Price: \$10,000 - \$30,000

Contact: Dane Petersen, Marketing
(206) 453-1320

COMPUTERS NORTHWEST, INC.
14711 N.E. 29th Place, Suite 110
Bellevue, WA 98007

UDS Order Processing

Operating System: CTS-300

Keywords: • Inventory • Order entry • Point of sale
• Sales and marketing

This series of programs gives you control over your customers' orders, from the time they are entered until they are shipped and closed. The order entry sequence directs the entry of the order, checks customer credit and stock availability, and prices the order commensurate with the quantity ordered. The system allows multiple shipment quantities and dates; prints an order entry log, acknowledgments, and packing lists; and updates the product file with booking information. When an order is shipped, a canceled order register, invoice cost register, and invoices are printed. Orders on the books may be aged by item and printed by customer or by job number. Back-ordered items are referenced and returned to the open-order file. Open orders may be referenced for a customer by CRT. Delinquent items are printed on a priority checklist, so that no item is overlooked.

If used with other modules, Order Processing can update sales records and sales and accounts-receivable accounts in the general ledger, post salesperson commission records, post invoices to the accounts receivable file, and update the sales region file, as well as keep track of each item shipped and the customer to whom it was shipped. This module gives you the status of every order and has a direct link to the customer master and finished-goods modules.

The customer master module lets you keep track of average payment time, last payment time, credit line, credit status, highest credit, terms, open accounts receivable balances, SIC listings, bookings, and sales (for the previous year and the year to date).

More than 300 business functions are represented in the standard package. Modules may be installed separately or combined to form an integrated system.

Although TOLAS can be installed as a complete off-the-shelf system, it is typically customized by Transcomm to fit a customer's unique business environment and can easily be expanded to meet growing EDP needs. That flexibility is achieved through several report and inquiry generators and by the use of modular programming techniques.

TOLAS is available on a turnkey basis or as add-on software on existing DIGITAL computers. Included with the software license are standard system specifications, program sources and documentation, users' manuals, and a 3-month warranty. Available at additional cost are systems analysis and custom specifications, package modifications, custom documentation, data conversion, user training, and extended warranty and support services.

A version of this product is available for the VAX computer.

Price: \$3000 - \$20,000

Contact: Allen L. Pinkus
(412) 963-6770

TRANSCOMM DATA SYSTEMS, INC.
1380 Old Freeport Road
Pittsburgh, PA 15238

TRIMS (Tire Dealers and Retreaders Information Management System)

Operating System: RSTS, RT-11, TSX-PLUS

Keywords: • Accounting • Automotive • Inventory
• Point of sale

This complete inventory control, accounting, and point-of-sale system is designed for the independent tire dealer. Program modules include inventory control, invoicing (including point of sale with on-line inquiry by tire size), accounts receivable, sales analysis, accounts payable, general ledger, payroll, purchasing, and a report generator. The programs are interfaced and provide for data security. Program highlights include pre- and postbilling capabilities (including point of sale), on-line order entry and editing, trade-ins, automatic back-order processing, product pricing with multiple quantity-level price breaks, group price changes by product type, customer trade discounts, national account billing, claims and adjustments tracking, sales tax exempt/computed status by customer with automatic sales tax computation, intercompany stock transfers, automatic purchase order generation and receipting, balance-forward and open-item customers, and futures (split billing).

This stand-alone inventory control system contains the functions required to keep records for a multiple-location tire company. The system allows inventory to be costed at both a regular average cost and a special cost, along with a complete sales history for each month of the year.

This system includes purchase order control, inventory receipts, inventory adjustment, a sales journal, and a complete physical inventory subsystem. A stock status list, a slow-moving-items list, an inventory valuation, and a stock movement report, along with complete dollar and unit sales, are included reports.

A version of this product is available for the VAX computer.

Price: \$5000 - \$10,000

Contact: Nigel Harris
(613) 829-8888

HARRIS COMPUTER SYSTEMS
16 Credit Union Way
Nepean, Ontario K2H 8R6
Canada

TOLAS

Operating System: RSTS

Keywords: • Inventory • Manufacturing • Order entry
• Purchasing

This comprehensive package for distribution and light manufacturing industries provides a complete multifunction, multiuser business system. Installations may run from 10 to more than 90 interactive terminals and may perform batch processing and program development or maintenance concurrently with on-line operations. TOLAS offers ease of operation, improved operator efficiency and accuracy, extensive on-line edit checking, formatted CRT screens, consistent logical flow across functions, and numerous accounting controls and audit trails.

TOLAS consists of eight application modules: Order Entry and Invoicing, Inventory Management, Accounts Receivable, Sales Analysis, Purchase Order Management, Accounts Payable, Financial Reporting, and Fixed Assets Accounting. Additional modules available are Work Order Processing and Equipment Sales and Rental Reporting.

Information from the Financial Reporting System can be passed directly to financial analysis and modeling packages on both the mainframe or on microcomputers. Special functions, known collectively as "Salestream," allow a centralized TOLAS data base to be accessed remotely by customer, vendor, or salesperson terminals.

The system automatically produces sales commission reports; provides open-/back-order status reports and automatic credit exception reporting; and automatically generates sales analysis reports, including customer item, class, sales representative, and invoice summaries, and inventory reports by status, activity, committed, critical, movement, price, warehouse, and customer contract. Optional general ledger and accounts receivable interfaces and automatic audit trails are provided.

A version of this product is available for the VAX computer.

Price: \$795 - \$8000

Contact: Adrienne H. Webb, Sales Manager
(415) 798-0240

COMPUTER SYSTEMS DEVELOPMENT, INC.
300 Ellinwood Way, Suite 160
Pleasant Hill, CA 94523

Thoroughbred Purchase Order

Operating System: RSTS, RSX

Keywords: • Data base management • Data dictionary
• Purchasing • Query facilities

This system features easy entry and verification of purchase orders; purchase order query and reporting by vendor, item number, or purchase order number at the terminal or as a hard-copy printout; automatic purchase order updating; multiple-page purchase orders; control of stock receipts and incomplete purchase orders; automatic adjustments of variance in purchase price; automatic unit conversions; flexible ship-to instructions; automatic generation of Vendor Master File Report; inventoried and noninventoried item ordering; optional interface with Accounts Payable; and automatic audit trails.

A version of this product is available for the VAX computer.

Price: \$795 - \$8000

Contact: Adrienne H. Webb, Sales Manager
(415) 798-0240

COMPUTER SYSTEMS DEVELOPMENT, INC.
300 Ellinwood Way, Suite 160
Pleasant Hill, CA 94523

Tire Dealer (Complete Inventory Control)

Operating System: CTS-300, RT-11

Keywords: • Inventory • Order entry • Purchasing
• Sales and marketing

The Inventory Control software provides an on-line update of the product file, which contains a 10-character product number, three prices, average cost, QTY on hand, QTY on order, QTY RES, QTY BO, EOQ, ROL, and much more; prints the daily inventory activity register; and prints the purchase advice report and the price list.

The Sales Analysis software produces five reports.

A version of this product is available for the VAX computer.

Price: \$995 - \$2500

Contact: Chuck Tebbetts

(818) 242-7981

THETA BUSINESS SYSTEMS

1110 Sonora Avenue, Suite 106

Glendale, CA 91201

Thoroughbred Order Processing

Operating System: RSTS, RSX

Keywords: • Data base management • Inventory
• Order entry

This system's Master Inventory File can provide up to 999,999 inventory items. Instant order and inventory information is available at a terminal or on hard-copy printout. Inventory information, including sales, costs, and reorders, is automatically updated in the Inventory Master File. Instant updates of on-hand and committed quantities are provided to prevent overshipment.

The system accommodates costing, entry, and shipment of noninventory items; provides complete tracking of in-stock, on-order, and back-ordered inventoried items; and automatically maintains stock-item history. The physical inventory subsystem provides forms for physical inventory and updates inventory files. Returned goods are processed automatically. The system maintains five warehouses; offers automatic or manual back-order reporting, processing, and release; and accommodates order cancellations, order changes, and partial shipments. Costing methods include market, weighted average, and LIFO/FIFO.

The system provides six levels of multipricing by customer, item, and category. Automatic markup pricing is available, as is selective pricing by customer. Optional cash sales processing with invoice printing is available. The system prints multiple-page invoices, sales orders, and shipping forms. On-line credit checks can be made during data entry. User-defined messages can be printed on invoices and sales orders. Automatic calculation of state sales tax is provided. The system provides totals for month-to-date billing and booking. Commissions can be determined by item or by salesperson.

Price: \$12,500

Contact: John Gardiner
(503) 388-3611

INFORMATION CONCEPTS, INC.
841 N.W. Bond Street, P.O. Box 85
Bend, OR 97709

SSMS (Service Station Management System)

Operating System: RSTS

Keywords: • Automotive • Inventory • Petroleum

SSMS is a complete package that tracks all sales and receipts for up to several hundred stations. SSMS provides detail by pump, product, book/physical inventory, cash receipts and miscellaneous sales by shift, day, or other user-selected reporting period. SSMS features on-line inquiry, immediate update of reported data, and a flexible reporting structure, much of which is directed by operator inputs. SSMS can interface with automated station equipment and may be integrated with ADD's General Accounting Software and Wholesale/Liquid Inventory systems to account for product from supplier to consumer.

Price: \$5000 - \$20,000

Contact: Bruce A. Bott
(201) 584-4026

ADVANCED DIGITAL DATA, INC.
354 Route 206
Flanders, NJ 07836

TBS Order Entry System with Inventory Control, Billing, and Sales Analysis

Operating System: RSTS, RSX, RT-11, TSX-PLUS

Keywords: • Billing • Inventory • Order entry
• Sales analysis

TBS Order Entry features on-line entry of orders and CR memos, permits items to be partially back ordered and partially shipped, automatically extends prices and calculates tax and weight, produces picking tickets for each order, maintains separate ship-to addresses, and changes or deletes orders automatically to adjust inventory. The system also prints a daily order log, open-order analysis reports, and back order analysis reports, all by customer number or product number.

The Billing software selects invoices for printing, adjusts quantity ordered and shipped in the invoice preparation program, provides interface for invoices and CR memos to A/R, and prints the invoice register.

Error-free tracking of items makes this package perform well for your system. Use of bar-coded tags or labels on each item eliminates errors and speeds throughput. The system keeps track of when item came to station, when item left station, and statistical information (comments, dimensions, and so on). Management reports are available on a daily, weekly, monthly, yearly, or on-demand basis.

Price: Available upon request

Contact: John Logan

(503) 297-1627

DENNISON EASTMAN CORP.

6400 S.W. Canyon Court

Portland, OR 97221

Soft Drink Bottler's Package

Operating System: RT-11, TSX-PLUS

Keywords: • Accounts receivable • Inventory • Wholesale

This comprehensive accounting and information system is designed for soft drink bottlers and distributors with 5 to 25 trucks. The system is written in Pascal under a data manager system. Some of the features include presell, route reconciliation, posting and control, sales reporting, and all accounting functions.

- Presell involves invoices and load sheets printed from customer orders.
- Route accounting provides for single-source data entry with on-line validation, which eliminates errors and saves time during the route reconciliation process.
- Inventory control provides perpetual inventory on all items in finished goods. An on-hand report by warehouse indicates the number of days of supply on hand. Monthly and year-to-date statistics can be displayed by item. Costing is optional with inventory evaluation.
- Production control provides usage and cost control on raw material items used in the production of finished goods. Standard use factors are compared against actual use for variance reporting.
- Sales reporting provides a functional set of reports covering case sales by warehouse, case sale trends, daily history, customer trends and analysis, franchise reports, promotional activity, salespeople's activity, and sales mix by any classification of customers.

All components are fully integrated and include sales analysis, inventory, presell, route reconciliation, accounts receivable, general ledger, accounts payable, and payroll.

232 Distribution

- Spoils accounting: Entering each spoils certificate generates detailed invoices for principal and credit memos on a store-by-store basis.
- Retail reporting: Survey reports of current shelf plan, customer by customer, are customized for each user and include comparisons of proposed, to present, to previous surveys by buyer and manufacturer, plus specific deficiencies within each store.

REPFAX is integrated into DIBS-11 and MCBA G/L, A/P, and Payroll.

A version of this product is available for the VAX computer.

Price: \$13,500 – \$17,500

Contact: Nick Culbreth
(404) 256-3067

AMERICAN DIGITAL PRODUCTS CORP.
5775-B Glenridge Drive N.E., Suite 320
Atlanta, GA 30328

Sales Analysis

Operating System: CTS-300, RSTS, RT-11

Keywords: • Sales analysis

This easy-to-use, user-maintained system with on-line inquiry capabilities is an integral part of the order-processing system and interfaces to Order Entry/Invoicing and Inventory systems. This extensive reporting Sales Analysis system contains summary or detailed reports and comparisons to prior periods.

Breakdown for product sales analysis is done by product, by group, and by brand, whereas customer sales analysis is done by salesperson, by location, and by customer class. Exception reporting by product and by customer provides information based on user-defined parameters.

A version of this product is available for the VAX computer.

Price: \$2000 – \$8000

Contact: Tom Muskiluke
(519) 893-4200

DIGITAL BUSINESS COMPUTERS
133 Manitou Drive
Kitchener, Ontario N2C 1L4
Canada

Shop Floor Control Systems

Operating System: RT-11, TSX-PLUS

Keywords: • Information management • Shop floor control
• Statistics

Price: \$10,000 – \$30,000

Contact: Robert Thomason
(603) 645-6677

INTERNATIONAL DIGITAL SYSTEMS CORP.
669 East Industrial Park Drive
Manchester, NH 03103

RealWorld Software: Order Entry/Inventory

Operating System: UNIX* (System III, System V, Version 7)

Keywords: • Inventory • Order entry • Query facilities

This system, developed by RealWorld, has item file maintenance and lists; allows receivings transaction entry and editing and posting with edit list and journal; provides for inventory costing by average cost, LIFO, or FIFO; facilitates order entry and editing, with interactive inventory control during order entry, and order edit list; and allows on-line order status inquiry and 1- and 2-step order processing. The system prints invoices for all orders billed, picking tickets, a price list, and stock status and purchasing advice reports and handles credit memos.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$850 – \$1250

Contact: Vern Pang
(714) 978-1212

INFORMATION MANAGEMENT ASSOCIATES, INC.
1437 W. Palmyra
Orange, CA 92668

REPFAF (Food Broker System)

Operating System: CTS-300, RSTS, RSX

Keywords: • Accounts receivable • Order entry • Retail
• Wholesale

The REPFAF Broker System is designed for food, health and beauty aids, and general merchandise brokers and provides the following:

- **Order processing:** The manufacturer's catalog data is prestored in a master file. Price, policies, minimum-order requirements, promotional allowances, and shipping information are automatically applied to each order. Salesman's Price Books contain all order information, plus effective dates and details of upcoming promotions. As promotions become effective or end, prices and terms are automatically changed.
- **Brokerage:** On-demand status analysis of each principal's account.
- **Sales and promotion tracking:** On-demand inquiry/reports on the effectiveness of products, promotions, salespeople, and principals.

Price: Available upon request

Contact: John Logan

(503) 297-1627

DENNISON EASTMAN CORP.

6400 S.W. Canyon Court

Portland, OR 97221

Purchase and Supply Control

Operating System: RSTS

Keywords: • Inventory • Manufacturing • Purchasing

This system controls the purchasing and stock replenishment for manufacturing and distribution companies. The largest military aircraft manufacturer in Europe uses the system to control an annual spend in excess of two billion dollars.

A version of this product is available for the VAX computer.

Price: \$20,000 – \$100,000

Contact: Dr. E. A. Haworth

061 248 7100

MANCOS COMPUTERS

3 Wynnstay Grove, Fallowfield

Manchester M14 6XG

United Kingdom

RAM 12™

Operating System: RSX

Keywords: • Accounting • Inventory • Order entry
• Point of sale

This comprehensive, reliable distribution and accounting control system provides interactive on-line information, integrated modules, better control, and increased profitability for the user. Reports can be selectively displayed on a video terminal and/or printed on a system printer. A report is either printed immediately or sent to a disk "spool" file for printing at a later time. Printing starts at any page number, and management reports can be printed many times. Companies and departments can simultaneously use a single RAM 12 system. The sophisticated and flexible password system permits a business to customize its security methods.

RAM 12 is offered as a complete, turnkey systems solution and includes training, 800-line telephone support, as well as on-line remote terminal and computer support from IDSC through modem connections.

A version of this product is available for the VAX computer.

Pricing features include the ability to price invoice items with one of six prices stored on the product file or with a nonstandard price entered at order entry. The system can handle price discounts as well. A discount percent may be applied to the invoice total, the line item, or the invoice amount carried to A/R. The system also provides for either standard costs or average costs for valuing inventory and costing sales. Plus, sales tax can be automatically applied to an invoice, based on sales tax codes in the percentage tables.

Inventory features include an automatic check on stock at order entry, the maintenance of information for the source of inventory replenishment and last order, production of picking lists by bin locations, product number, and so on. Plus, inquiry is allowed to the open-order file with selective display or reporting based on delivery date, order date, customer code, product code, stock code, and more.

Sales features include a sales commission rate on the tax/discount table file. Sales commissions may be calculated by line item. The system maintains sales statistics in the product record for quantity, cost of sales, and sales for the current period, year to date, and prior year. A sales representative report provides an audit trail of commission transactions and tracks collection of accounts. The system automatically checks the credit of customer account balances, reports back order selectively by customer or product, and prints delivery/special instructions on invoices.

Price: \$5500

Contact: Victor Goldberg
(212) 872-7732

PEAT, MARWICK, MITCHELL & CO.
345 Park Avenue
New York, NY 10154

Production Control Systems

Operating System: RT-11, TSX-PLUS

Keywords: • Production control

Through data entry or automatic entry by means of bar-code tags or labels, the system can keep track of production while eliminating errors during input. This system is built around your specifications or is fitted to one of our existing production control packages. Existing production control packages keep track of location of items and their status at each location. Management reports are available on demand.

Pioneer COMMAND Sales Order Processing Module

Operating System: RSTS

Keywords: • Accounting • Billing • Order entry
• Sales analysis

This module, developed by Pioneer Software International, is interactive, on line, user friendly, and part of Pioneer's COMMAND System for Financial Management, Distribution, and Manufacturing. Pioneer's COMMAND System is written in BASIC-PLUS-2 and requires a minimum of 64K words. Because the system is based on Userware International's USER-11 Database Management System, extensive on-line inquiry and ad hoc reporting are available.

The Sales Order Processing module consists of three major components: Order Entry, Invoicing, and Sales Analysis. The Order Entry system provides for a variety of discounting policies that can automatically be used by setting system control parameters. Those can be based on customers, customer groups, products, product groups, or any combination. Discounts applied can be based on percentages or absolute amounts. Discounts given at order entry time can be changed or overridden at any time, even during invoicing. Multiple warehouse or stock locations are supported. Currency conversion is also an option. Invoicing allows direct entry without reference to an open order, as well as invoicing selected or batched open orders. Credits may be entered separately. A variety of screen displays are available to review open-order details. Numerous reports are available, including open orders in various sequences, aged order report, and detailed and summary sales analysis, including sales commissions. The Sales Order Processing module automatically interfaces with the Accounts Receivable, Inventory Management, and General Ledger modules.

A version of this product is available for the VAX computer.

Price: \$4000 - \$8000

Contact: Jered Cady, Vice President, Sales and Marketing
(619) 745-6006

USERWARE INTERNATIONAL

2235 Meyers Avenue

Escondido, CA 92025

PM32 Order Processing/Inventory/Sales Analysis

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounting • Inventory • Order entry
• Sales analysis

This package can be linked with the Accounts Receivable package to automatically update customer balances and receivable transaction files as invoices and credit memos are created.

Price: \$3000 - \$6000

Contact: Jered Cady, Vice President, Sales and Marketing
(619) 745-6006

USERWARE INTERNATIONAL
2235 Meyers Avenue
Escondido, CA 92025

Pioneer COMMAND Purchase Order Processing Module

Operating System: RSTS

Keywords: • Accounting • Manufacturing • Order entry
• Purchasing

This module, developed by Pioneer Software International, is interactive, on line, and user friendly. The module may be installed stand alone or as part of Pioneer's COMMAND System for Financial Management, Distribution, and Manufacturing. Pioneer's COMMAND System is written in BASIC-PLUS-2 and requires a minimum of 64K words. Because the system is based on Userware International's USER-11 Database Management System, extensive on-line inquiry and ad hoc reporting are available.

The Purchase Order Processing Module handles all purchase orders and back orders to suppliers and provides a method of receiving and returning merchandise against individual line items on those orders. Extensive facilities are available to allow the addition, modification, and deletion of orders and individual line items on orders. The vendor data base contains details of the contractual terms, including normal discount, contract pricing, and payment terms. A variety of screen displays, providing summary and detailed information, are available for reviewing purchase orders. Numerous reports are available, including purchase order summaries in a variety of sequences, aged purchase order reports, returns, exception reports, and others. The Purchase Order Processing Module automatically interfaces with the Inventory Control, Accounts Payable, General Ledger, Sales Order Processing, Work Order Processing (Production Control), and Material Requirements Planning (MRP) modules.

A version of this product is available for the VAX computer.

Price: \$4000 - \$8000

Contact: Jered Cady, Vice President, Sales and Marketing
(619) 745-6006

USERWARE INTERNATIONAL
2235 Meyers Avenue
Escondido, CA 92025

This system provides a tool for controlling quantities of parts that may be used in equipment maintenance and repair. The system provides reports of current inventory, low-stock items, and low-stock items by vendor. The system also supports other useful functions.

A version of this product is available for the VAX computer.

Price: \$3000 - \$5000

Contact: Ralph M. Flanders, President
(615) 966-6832

CUSTOM COMPUTER SOFTWARE, INC.

1108 Woodshire Drive

Knoxville, TN 37922

Pioneer COMMAND Inventory Management Module

Operating System: RSTS

Keywords: • Inventory • Manufacturing • Warehousing

This module, developed by Pioneer Software International, is interactive, on line, and user friendly and provides complete control of inventory. The module may be installed stand alone or as part of Pioneer's COMMAND System for Financial Management, Distribution, and Manufacturing. Pioneer's COMMAND System is written in BASIC-PLUS-2 and requires a minimum of 64K words. Because the system is based on Userware International's USER-11 Database Management System, extensive on-line inquiry and ad hoc reporting are available.

The Inventory Management Module operates in a multiple-warehouse environment involving finished goods, subassemblies, components, and raw materials. Various financial and statistical information and up to 24 periods of usage history are retained against each part. Control of parts movements is achieved through an audit trail of all movements, including merchandise received, issued, returned from production, and returned to suppliers. Inventory reordering patterns are parameter driven and depend on which options are selected. This module also offers comprehensive physical inventory procedures, several costing methods, and a variety of screen displays to review inventory balances and movement. Numerous reports are available, including inventory status and valuation, inventory reorder report, ABC analysis, and others. The module automatically interfaces with Sales Order Processing, Purchase Order Processing, and General Ledger.

A version of this product is available for the VAX computer.

When an order is entered, the system immediately checks the stock status of the product. The item is committed, and shipping papers are printed in bin location sequence. Multiple ship-to addresses are allowed. The customer's credit status is also checked at order entry.

Pricing is flexible. Features include 36 price codes, 36 quantity breaks, contract prices, manual pricing, and trade and special discounts.

The Order Entry system automatically updates the Accounts Receivable, Inventory, General Ledger, Order History, and Sale Commissions.

A version of this product is available for the VAX computer.

Price: \$4000 - \$13,000

Contact: Michael B. Andelman, President

(312) 953-2220

LIOCS CORP.

246 E. Janata Boulevard

Lombard, IL 60148

PIC (Parts Inventory Control System)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Cost accounting • Inventory

This system provides interactive data entry and data base inquiry for parts inventory accounting and control. Labor expense can also be included to produce project cost reporting by a number of categories.

Reports of low stock and reports by vendor, part number, or size can be produced. An audit trail report by work order or by purchase order is available.

Data entry errors are trapped at entry time. Any number of parts can be stored on multiple disks. Reporting across disk files is standard.

A version of this product is available for the VAX computer.

Price: \$10,000

Contact: W. G. Welter

(713) 373-1905

ADVANCED MANAGEMENT TECHNOLOGIES

Box 71

Cypress, TX 77429

PICS (Parts Inventory Control System)

Operating System: RSX, RT-11

Keywords: • Inventory • Management • Materials handling
• Warehousing

Distribution media: RL01, RL02, RX01, RX02, magnetic tape.

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The on-line Inventory system, with Perspective Order Processing and Purchasing, provides the proper balance between inventory and sales.

Any product can be specified for back order. That automatic feature eliminates manual control procedures and helps reduce the number of sales lost because a required back order was overlooked. Perspective/700 Inventory also provides information that helps to decide what you need, when you need it.

This multiuser, multicompany system provides for 36 warehouse locations. A physical inventory subsystem handles inventory automatically. Order Processing allocates inventory while invoicing automatically depletes inventory. The current value of inventory can be automatically calculated. The system can also show the manufacturer's product line. Reports include inventory valuation reports and a warehouse stock status report.

The Inventory system, which interfaces to Purchasing, provides flexible pricing. Up to 36 prices to an item are allowed, as is quantity break pricing. Costing methods include FIFO, average cost, LIFO, standard cost, and current. Prices for inventory items can be updated to reflect current costs while protecting the bottom line of item profitability.

A version of this product is available for the VAX computer.

Price: \$2000 - \$5000

Contact: Michael B. Andelman, President
(312) 953-2220

LIOCS CORP.

246 E. Janata Boulevard
Lombard, IL 60148

Perspective/700 Order Processing

Operating System: RSTS

Keywords: • Credit • Financial analysis • Order entry

This multiuser, multicompany system allows the user to add new customers at order entry or to look up customers by account number, name, or phone number.

Order Entry enables the user to enter orders, credit memos, debit memos, and direct billing for individual customers while creating an open sales orders file for pending customers. Invoices are calculated daily for all sales orders that have been released for invoicing. An optional feature permits purchase orders for drop shipment of non-stocked items to customers to be generated automatically.

PENQUIN™**Operating System:** CTS-300, RT-11**Keywords:** • Inventory • Materials handling • Robotics
• Warehousing

This complete fourth-generation software system combines the new technological areas of business automation and materials handling automation (robots), producing the totally automated warehouse. The system allows a huge storage facility to be run completely by one person.

For business automation, PENQUIN produces all paperwork required in any public warehouse and keeps track of warehouse contents. Warehouse customers are provided with total inventory control, either by reports generated at the warehouse or by accessing the warehouse computer remotely through telephone lines. More than 100 warehouse office automation functions are included. Modern data base management techniques support a completely integrated information management facility.

For automated materials handling, PENQUIN monitors and commands both conveyors and stacker cranes (robots), which move pallets of material in and out of storage. PENQUIN provides high-level control of all materials handling equipment. For example, one can withdraw different commodities from the warehouse at different rates of speed, depending on the priority of the shipment to be loaded onto waiting trucks or railcars.

The entire system can be operated successfully by anyone with minimal training and marginal typewriter keyboard skills. The computer system prevents personnel from creating errors or introducing ambiguities but gently aids PENQUIN users in clarifying their requests.

The PENQUIN host system runs on DIGITAL PDP-11 minicomputers and LSI-11 microcomputers. PENQUIN can be run in any frozen, refrigerated, or dry storage.

Price: Available upon request**Contact:** Peter McWha, General Manager
(613) 820-1517

LOGICAID LTD.

97 Craig Henry Drive

Nepean, Ontario K2G 3S8

Canada

Perspective/700 Inventory Management**Operating System:** RSTS**Keywords:** • Bill of materials • Inventory • Order entry
• Warehousing

ordering, and the ability to override credit hold and out-of-stock conditions. The system also allows special pricing and discounting techniques.

The inventory control subsystem automatically allocates inventory during order entry. Inventory management maintains lot history from receipt to deletion, performs requirements forecasting, and reports year-to-date inventory sales histories. The system prints work orders, UPS shipping labels, invoices, and statements.

Accounts Receivable offers billing statements and aged receivables reports as well as daily and monthly status reports to compare sales, profit percentages, and aged total receivables.

The salesperson/commission subsystem tailors commission plans for individual salespeople and produces reports on demand.

A version of this product is available for the VAX computer.

Price: \$5000 - \$15,000

Contact: Elvin E. Smith or Forrest E. Weddle

(913) 782-8544

RUF CORP.

1533 E. Spruce

Olathe, KS 66061

Papersoft

Operating System: RSTS

Keywords: • Accounting • Inventory • Order entry
• Purchasing

This fully integrated interactive system for the wholesale merchant provides order entry with special pricing and amalgamation capabilities, billing, sales analysis, inventory management, accounts receivable, accounts payable, and general ledger capabilities. Papersoft controls multicompany, branch, warehouse, and retailing activities. The system features inventory management techniques to reduce stock-outs and to increase turns and functions to defined service levels and to improve inventory investment decisions. The system automatically checks for credit, automatically generates delivery documents, ships back orders, and fully controls factory-direct shipments. Source code is provided.

A version of this product is available for the VAX computer.

Price: \$56,000 - \$100,000

Contact: Norman J. Parkinson

(206) 828-6787

THE COMPUTERWORKS, INC.

P.O. Box 70248

Bellevue, WA 98007

Inventory Control. Special forms, such as manifests and bills of lading, can be produced, and programs are available for spread order and blanket order entry. A change-in-status report by item can be produced that shows open orders at start of period, new orders, shipments, and open orders at end of period. That report can be organized by item, by item within customer, or by item within vendor. Future orders may be entered, and stock requirements reports can be printed to assist with long-range manufacturing plans.

Also available are a print key providing hard copy of any screen image through the system printer, true multiuser design for concurrent program use, built-in multicompany/multidivision support, and user-assigned predefined company/division or user-allowed option to specify company/division. Timely information is assured through the automatic updating of G/L from all modules.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Laurel McDaniel
(312) 332-3242

NEAL NELSON & ASSOCIATES
185 N. Wabash, Suite 1908
Chicago, IL 60601

Order Processing

Operating System: RSTS

Keywords: • Order entry

This program offers a complete order-processing system.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Andrew Yasenchak
(201) 231-9400

UNITRONIX DATA SYSTEMS, INC.
50 County Line Road
Somerville, NJ 08876

ORDERS Wholesale Distributor System

Operating System: RSTS, RSX, RT-11

Keywords: • Order entry • Report writer • Warehousing
• Wholesale

This fully interactive on-line system is for the wholesale distributor. An order entry subsystem allows multiple terminal operators to perform order entry directly over the telephone or from order forms. The system provides on-line customer credit checking, automatic back-

line of the order/invoice, and add-on charges. Reporting is comprehensive by way of screen inquiries and hard-copy printouts. Complete audit trails are provided. The Order Entry/Invoicing system also features multiple branches, on-line inventory status, on-line inquiry, reporting, automatic back orders, and user-maintained options.

A version of this product is available for the VAX computer.

Price: \$5000 – \$20,000

Contact: Tom Muskiluke

(519) 893-4200

DIGITAL BUSINESS COMPUTERS

133 Manitou Drive

Kitchener, Ontario N2C 1L4

Canada

Order Processing

Operating System: RSTS

Keywords: • Data collection • Order entry

This interactive system features operator prompting and extensive on-line editing and validation of order entry information. The system automatically adds data to existing order data. Picking tickets and invoices are automatically produced from the open-order file. Complete maintenance is available against open orders. Order Processing operates in prebilling and/or postbilling environments and provides for simultaneous entry of orders from multiple terminals, multiple-location processing, multiple selling prices, and automatic back-order and future-order (seasonal) control with full reporting.

A version of this product is available for the VAX computer.

Price: \$6900 – \$33,500

Contact: Marketing Department

(502) 491-9820 or 1 (800) 626-6268

AMCOR COMPUTER CORP.

1900 Plantside Drive

Louisville, KY 40299

Order Processing

Operating System: ULTRIX-11, UNIX* (System III, System V)

Keywords: • Manufacturing • Order entry

This fully integrated on-line multiuser UNIX*-based order processing system provides full support for multiple shipments, partial shipments, and back orders. The programs produce packing lists, shipping labels, order and shipment registers, back-order processing, open-order analysis, and order-status inquiries. The system provides for returns, allowances, adjustments, and items damaged during shipment. Both orders and shipments are immediately posted to

Price: \$2000

Contact: Elvin E. Smith or Forrest E. Weddle

(913) 782-8544

RUF CORP.

1533 E. Spruce

Olathe, KS 66061

Order Entry/Inventory System

Operating System: RSTS

Keywords: • Accounts receivable • Inventory • Order entry
• Wholesale

The Order Entry System automatically converts shipped orders to receivables. The Accounts Receivable rounds out the Inventory System, informing you of your current receivables.

The Order Entry/Inventory System generates packing slips; enters shipments; performs invoicing; automatically updates inventory; cancels orders and adjusts inventory; covers partial or complete shipments; reports back orders and period-to-date and year-to-date unit sales, dollar sales, and cost figures; generates stock-status reports indicating items that require reordering or are below the minimum/above the maximum inventory level; and provides 10 price lists that can be selected by the customer.

The Order Entry/Inventory System produces packing slips; invoices; cancellation, inventory transaction, open-order (by customer or items), stock-status, and customer-analysis reports; and sales journals.

A version of this product is available for the VAX computer.

Price: \$1500 - \$20,000

Contact: William R. Paschal, Jr.

(405) 843-7323

DATATEK CORP.

818 N.W. 63rd

Oklahoma City, OK 73116

Order Entry/Invoicing

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounting • Billing • Order entry
• Sales analysis

This flexible system interfaces with Accounts Receivable, Inventory, and Sales Analysis for a complete order-processing system. Optionally, Invoicing is available as a stand-alone system. Pricing and discounts are automatic but can be overridden. The user defines units of measure, applicable taxes, information to be included in the ribbon

This system allows the user to enter original-order data, credit notes, order-update information, and back-order data on line. Validation and edit checking are performed at the entry stage. A flexible discount system allows the application of several discount rates. The ability to enter general ledger distributions for extraneous items in addition to regular stock entries is provided.

Order data can be displayed by using a terminal inquiry program. The invoice generator automatically calculates the invoice totals and offsetting postings for revenue, cost of goods sold, and so on. A report of outstanding orders provides details for each nonsatisfied order. Also, a back-order release report indicates the orders that can be satisfied by the receipt of the back-ordered inventory stock. Data Key's accounts receivable and sales analysis (Data Key A/R and S/A) programs are provided as part of this package. Data Key's inventory system (Data Key INV) program is recommended for total use of this system.

Price: \$6000

Contact: Marvin Gogal, Branch Manager
(403) 464-7121

DATA KEY LTD.
2107 - 87 Avenue
Edmonton, Alberta T6P 1L5
Canada

ORDENT-IMPRS General Business Order Entry System

Operating System: RSTS, RSX, RT-11

Keywords: • Billing • Credit • Inventory • Order entry

This fully interactive, self-prompting system features inventory control, credit limit checking, automatic back ordering, and interactive reporting. Other features include automatic credit-checking authorization, selective back-ordering techniques, generation of picking tickets/invoices/credit memos, on-line O/E editing with error and correction prompts, on-line shipping entry with selective back ordering, overriding out-of-stock conditions, immediate inventory-control allocation functions, flexibility to allow for special pricing and discounting techniques, add-on picking ticket and invoices comments, overriding ship-to address information, and integration with other IMPRS application packages.

A version of this product is available for the VAX computer.

A version of this product is available for the VAX computer.

Price: \$3600 - \$12,500

Contact: Sales Department

(806) 792-3785

COMPU-SHARE, INC.

3824 50th Street

Lubbock, TX 79413

OPRA

Operating System: RSTS

Keywords: • Billing • Inventory • Order entry • Wholesale

OPRA provides complete facilities for purchase and sales order processing, goods-in, goods-out, stock control, and invoicing. The system is appropriate for organizations with a significant distribution function — wholesale, retail, manufacturing — and an annual turnover in excess of £5 million. The product is particularly applicable to retail, the wine and beer trade, the clothing trade, and manufacturing in general. The system interfaces directly with the APRA integrated accounting system. The system features on-line validation, stock update, credit checking, and stock reservation; facilities to handle returned stock, discounts, delivery dates, delivery addresses, and delivery link codes; controlled product substitution; multiple date-related base selling prices for each product; documentation that includes goods-in advices, picking notes, delivery notes, and invoices; on-line confirmation, cancellation, part confirmation of receipts, and acceptance of additional/alternative items; automatic back ordering and order release; repricing of goods not yet delivered; and comprehensive on-line inquiries.

A version of this product is available for the VAX computer.

Price: £11,000 - £18,000

Contact: J. Goldsmith

0252 544321

SOFTWARE SCIENCES LTD.

Abbey House, 282/292 Farnborough Road

Farnborough, Hampshire GU14 7NB

England

ORD (Order Entry and Invoicing Application)

Operating System: RSTS

Keywords: • Billing • General ledger • Inventory

• Order entry

OE-11 (Order Entry and Invoicing)

Operating System: Micro/RSTS, Micro/RSX, RSTS

Keywords: • Order entry • Retail • Sales analysis
• Warehousing

Distribution media: 800/1600/6250 bpi magnetic tape, RK07, RL02, RM03, RX50.

This system operates with AR-11 Accounts Receivable to provide an interactive method of entering and processing orders, generating invoices, and analyzing sales. OE-11 features user-designed forms for order processing using user-defined parameter files. Other user-oriented features include:

- User-defined product codes with up to 15 characters and description with up to 120 characters
- An order entry screen that recalls and validates information from customer files, allows hold orders, provides available quantities, and performs immediate pricing
- User-defined order processing requirements that determine what is required before invoicing
- Pricing through four base-price fields or special pricing by contract
- Price changes that may be entered before the actual date of change and applied as of the change date
- Credit memo, back-order, and direct-ship processing
- Price changes allowed during order entry process with passwords and reason codes
- After-the-fact invoicing and customers added during order entry allowed
- Orders tracked through the system with an order status report
- Generic (not inventoried), obsolete, and replaced products allowed
- A password security system
- Interfaces to AR-11 Accounts Receivable and IC-11 Inventory Control; other complementary products include the GL-11 General Ledger, AP-11 Accounts Payable, PY-11 Payroll, FA-11 Fixed Assets, and CN-11 Job Cost systems

OE-11's reports include new orders, master orders, order status, product sales analysis, customer sales analysis, back orders, direct ships, special orders, missed and canceled orders, current prices, historical price changes, and pending price changes. Forms that can be designed by the user include invoices, acknowledgments, picking lists, packing lists, shipping papers, credit memos, new-order information, generic price sheets, and customer price sheets.

The OE-11 user's guide includes information for the office manager, the terminal operator, and the application supervisor. The reference manual provides information on installation procedures, program flows, and data formats for the system manager and programmers.

A version of this product is available for the A-to-Z system.

MMS-2 tracks back-ordered material and triggers issuing on receipt, sorts bulk storage activities by location, and tracks assignment of those transactions to operators. MMS-2 provides similar work disciplines and information management for manual and automated stockroom areas.

Host computer communications for loading of issue requirements, notification of receipts or new-part definition, and reporting back of stock, pick, and cycle count performance and exceptions are through IBM 3271, 2780/3780, or other protocols.

A version of this product is available for the VAX computer.

Price: \$50,000 - \$100,000

Contact: Ronald Tepper
(212) 695-5001

RGTI SYSTEMS SOFTWARE

1 Penn Plaza, Suite 4835

New York, NY 10119

MODS (Manus Oil Dealer System)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts receivable • Billing • Inventory
• Petroleum

Designed to meet the processing needs of the fuel oil dealer, this system provides complete degree-day accounting for automatic preparation and scheduling of delivery tickets for heating customers, an extensive customer data base with ready access through inquiry functions, and historical information on deliveries and service calls. The full accounts receivable program provides complete accounting records, customer statements, and optional printing of delivery or service invoices. Credit management functions provide customer agings, finance charges, dunning notices, billing for a variety of budget payment plans, high visibility of accounts with credit problems, as well as a "tickler" file for credit follow-up. Management reporting provides sales and tax breakdowns, a profitability analysis, and truck/driver activity reports. For the service department, the system provides for contract billings, profitability analysis of service contracts, service call histories, and servicemen activity recaps.

The system may also be integrated with a full accounting package providing general ledger, financial reporting, accounts payable, payroll, and word processing capabilities.

Price: \$20,000

Contact: Gary Vowels
(206) 285-3260

MANUS SERVICES CORP.

1700 Westlake Avenue North

Seattle, WA 98109

MMS-1 (Material Management System)

Operating System: RSX

Keywords: • Inventory • Materials handling • Warehousing

This low-cost easy-to-use system manages the stockroom, warehouse, toolcrib, or supply center. MMS-1 operates with conventional storage, using racks, bins, shelves, or pallets. MMS-1 will also control automated storage and retrieval equipment, such as miniload stackers and carousels.

MMS-1 provides real-time inventory control through on-the-spot data capture for immediate and accurate inventory of up to 50,000 items. Part-location indexing eliminates searches by providing exact locations for picking or stocking items. Space management automatically assigns free space to new items.

Additional features are cycle audit control for automatic scheduling and recording of progressive inventory counting to eliminate annual shutdown; audit trail reporting for a complete printed log of transactions; and management reporting through attractive screen displays and reports of activity, inventory, and status summaries.

Host computer feedback, label printing for travel tickets and location tags, and AS/RS control are optional.

A version of this product is available for the VAX computer.

Price: \$11,000 – \$21,000

Contact: Aaron Albert
(212) 695-5001

RGTI SYSTEMS SOFTWARE

1 Penn Plaza, Suite 4835

New York, NY 10119

MMS-2 (Material Management System)

Operating System: RSTS, RSX

Keywords: • Inventory • Materials handling • Warehousing

MMS-2 provides real-time control of storage and retrieval operations in manual and automated stockrooms, warehouses, and supply centers. MMS-2 provides location assignment and space management in conventional racks, shelves, and cabinets; automated storage and retrieval equipment, such as miniload stackers and carousels; all MMS-1 features; support of multiple users and multiple automated storage machines; kitting control for coordinated picking of orders; bar code reading and printing; and radio-linked terminals for mobile on-board or hand-held use in rack and shelf storage.

information can be generated at receipt entry time, if desired. Receipt transactions for noninventoried items are specially processed so that the receipt of such merchandise can be related back to the original sales order. Several report functions, with varying selection and sort options, provide P/O status and audit trail reporting. A vendor history report shows vendor service performance on a year-to-date basis. Inquiry functions give immediate access to vendor data and to the current status of issued P/Os. In an integrated system, the Purchase Order Management module directly interfaces with Inventory Management.

A version of this product is available for the VAX computer.

Price: \$6000 - \$9000

Contact: Gary Vowels
(206) 285-3260

MANUS SERVICES CORP.
1700 Westlake Avenue North
Seattle, WA 98109

MBS-WD (Manus Business Systems — Automotive Parts Warehouse Distributor System)

Operating System: RSTS

Keywords: • Automotive • Warehousing • Wholesale

These fully integrated modules for order processing, inventory management, purchasing management, sales analysis, accounts receivable, accounts payable, and general ledger are tailored for the automotive aftermarket wholesaler. Specific emphasis has been placed on improving customer service by fast and efficient order processing, zoned picking tickets by warehouse, inventory visibility, interwarehouse transfer of stock, full back-order processing, and accurate sales analysis. Order entry functions are designed to support telephone and will-call counter order entry.

Inventory investment analysis is also given special attention. Stock movements are retained and used to classify the inventories for automated stock replenishment. Automatic replenishment applies one of five ordering algorithms to the movement history to compute a suggested order that the purchasing manager reviews and modifies by exception, thereby concentrating on those items requiring special knowledge.

Price: \$12,600 - \$38,700

Contact: Gary Vowels
(206) 285-3260

MANUS SERVICES CORP.
1700 Westlake Avenue North
Seattle, WA 98109

MBS-OP (Manus Business Systems — Order Processing)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Order entry • Warehousing • Wholesale

This module provides single- or multiple-warehouse order processing operating in pre- and postbilling modes. In a complete system, this module is fully integrated with four other MBS modules: Inventory Management, Sales Analysis, Accounts Receivable, and General Ledger. The module has been successfully installed in low-volume single-warehouse and high-volume (8000+ order lines/day) multi-warehouse environments.

In the prebilling mode, orders are entered with stock volume checking. Picking tickets are directed to a warehouse printer. The open order is maintained until shipping information and picking exceptions are entered, at which time the invoice is generated and back orders are created. When stock is received, back orders can be filled, and a new order is automatically generated. The postbilling mode bypasses the picking ticket production, creating an invoice or memo immediately, with back-order support as needed. Several inquiries give the user complete visibility of orders, back orders, and stock levels.

Reports are provided for status and audit trails. Those reports offer the user sort and selection options. Special functions support interwarehouse transfer of stock.

A version of this product is available for the VAX computer.

Price: \$6000 — \$15,000

Contact: Gary Vowels
(206) 285-3260

MANUS SERVICES CORP.
1700 Westlake Avenue North
Seattle, WA 98109

MBS-PO (Manus Business Systems — Purchase Order Management)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Inventory • Purchasing • Warehousing
• Wholesale

This module provides the capabilities for performing all purchasing activities related to an inventory control system. The module includes functions needed to maintain a vendor master file and to prepare purchase orders in an on-line mode for those vendors. All purchase orders issued are retained on file until all the line items ordered are processed. Received merchandise is recorded through receipt transactions and is applied against an open P/O. Back-order

order on an exception basis, concentrating on the small number of products for which special knowledge and experience are most important.

A version of this product is available for the VAX computer.

Price: \$4000 - \$6000

Contact: Gary Vowels
(206) 285-3260

MANUS SERVICES CORP.
1700 Westlake Avenue North
Seattle, WA 98109

MBS-IM (Manus Business Systems — Inventory Management)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Inventory • Warehousing • Wholesale

The MBS Inventory Management Module provides the capabilities for effective inventory accounting and control. The module includes functions for maintaining product files for single or multiple warehouses. Inquiry functions provide rapid summary information on inventory status. A function is available to adjust stock levels through several types of inventory transactions, including physical adjustments, returned merchandise, and interwarehouse transfers. Audit trails allow management to monitor changing stock levels and to guard against erroneous or unauthorized stock access.

Several functions assist in performing physical inventory count. Special functions are available in the module for maintaining item price and cost data over periodic intervals and for having product values automatically updated at predefined dates. Various reports provide useful management tools to help prevent loss of sales due to out-of-stock conditions.

The Inventory Management Module interfaces, through transaction processing, the MBS Order Entry/Invoicing, Purchase Order Management, and General Ledger modules.

A version of this product is available for the VAX computer.

Price: \$4000 - \$9000

Contact: Gary Vowels
(206) 285-3260

MANUS SERVICES CORP.
1700 Westlake Avenue North
Seattle, WA 98109

210 Distribution

Price: \$6900 - \$33,500

Contact: Marketing Department

(502) 491-9820 or 1 (800) 626-6268

AMCOR COMPUTER CORP.

1900 Plantside Drive

Louisville, KY 40299

Inventory/Rentals

Operating System: RSTS

Keywords: • Billing • Inventory • Sales analysis

Distribution medium: 9-track 1600 bpi magnetic tape.

This system maintains inventory by serial number and by count. The system handles sales, maintenance, rentals, leases, and demo orders. Initial invoicing is automatically generated at shipment, and repeat billings for maintenance, leases, or rentals are generated monthly. Management maintains control over price and credit approval.

Inventory/Rentals is interactive and also maintains tight controls and detailed audit trails. A high-level report writer generates reports from the data base and audit trails. A 1-minute session enables the user to initiate a report with user-specified sorts, page breaks, titles, selects, and totals. The system is stand alone or is bundled with A/P, A/R, G/L, and payroll. The cost for each transaction is minimized when generating a large number of small monthly invoices.

A version of this product is available for the VAX computer.

Price: \$20,000

Contact: Robert Brown

(902) 429-3175

DYMAXION RESEARCH LTD.

Box 1053, Armdale Station

Halifax, Nova Scotia B3L 4L5

Canada

MBS-ASR (Manus Business Systems — Automatic Stock Replenishment)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Inventory • Purchasing • Warehousing
• Wholesale

MBS Automatic Stock Replenishment uses data collected by the (pre-requisite) MBS Order Processing and MBS Purchase Order Management modules to calculate suggested stock reorders. The system uses 18 months of order and ship quantity data to classify products based on movement and cost. Once products have been classified, the system will apply one of five ordering algorithms to calculate the proper suggested order quantity. The purchasing manager is then able to

pounds) with automatic conversion. Inventory Control is fully integrated with purchasing, material receipts, and order and shipment processing. The system maintains perpetual on-hand and on-order balances for both purchase and sale items. Support is provided for "ABC" analysis of stock levels, which helps locate over- or under-stocked items. A subsystem is available to assist in physical inventory. The programs print count sheets and reports that compare theoretical to actual counts and compare theoretical to actual stock levels. The programs allow entry of actual accounts and revised accounts and generate adjustment transactions for variances.

Also available are a print key providing hard copy of any screen image through the system printer, true multiuser design for concurrent program use, built-in multicompany/multidivision support, and user-assigned predefined company/division or user-allowed option to specify company/division. Timely information is assured through the automatic updating of G/L from all modules.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Laurel McDaniel

(312) 332-3242

NEAL NELSON & ASSOCIATES

185 N. Wabash, Suite 1908

Chicago, IL 60601

Inventory Control System

Operating System: RSTS

Keywords: • Cost accounting • Inventory • Warehousing

This on-line interactive system controls the basic inventory functions and provides comprehensive reports for efficient inventory management. The system manages restocking, physical count processing, inquiry, price books, and file maintenance for single or multiple warehouse locations. The I/C system provides comprehensive master and warehouse records, quantity and customer-based pricing, plus trade, customer, and chain discounting. Provisions are also made for replacement, highest replacement, average, and user-defined costs. The complete reporting features allow for timely, effective management for cost control.

A version of this product is available for the VAX computer.

Bar-Coded Inventory eliminates errors and allows fast and easy stocking, receiving, disbursing, and inventory reporting and control. Applications are for wholesale and resale. Physical inventory can be handled quickly and easily by bar-coded scanners and can be verified and variances provided by the system. This system can be customized easily to fit your inventory system.

Price: Available upon request

Contact: John Logan

(503) 297-1627

DENNISON EASTMAN CORP.

6400 S.W. Canyon Court

Portland, OR 97221

Inventory

Operating System: CTS-300, RSTS, RT-11

Keywords: • Inventory • Materials handling • Warehousing

This flexible system supplements the product file with a group and a brand file, facilitating extensive and logical reporting. The Inventory system allows multiple branches, and the set-up inventory is automatically duplicated. Valuations are performed based on standard costs, weighted average, or FIFO. Complete audit trails are provided. The system interfaces with Order Entry/Invoicing, Accounts Receivable, and Sales Analysis and forms part of a complete order-processing system.

The Inventory system features multiple branches/warehouses, branch-to-branch transfers, mass inventory loading, purchase order information, on-line inquiry, extensive reporting, and user-maintained options.

A version of this product is available for the VAX computer.

Price: \$3000 - \$15,000

Contact: Tom Muskiluke

(519) 893-4200

DIGITAL BUSINESS COMPUTERS

133 Manitou Drive

Kitchener, Ontario N2C 1L4

Canada

Inventory Control

Operating System: ULTRIX-11, UNIX* (System III, System V)

Keywords: • Inventory • Manufacturing • Purchasing

This on-line multiuser UNIX*-based inventory control system maintains stock levels and reorder points and provides usage analysis, inventory valuation, and reorder reports. The system supports multiple units of measure for each inventory item (cases, pieces, and

productivity 100% and reduces order selection 66%; trains and orients a picker in one-half hour; identifies bulk and case pick zones; generates daily load sheets, accurate packing slips, and warehouse productivity reports; ties in with order checking; provides automatic order picking sequencing, balancing of multiple-location items, and substitution for out-of-stock items; gives the warehouse manager control of product location; and offers random-order sequencing with bar code option.

Price: \$29,000

Contact: Andy Cherry, Marketing
(201) 348-6688

EXTENDED TECHNOLOGIES CORP.
1023 Boulevard East
Weehawken, NJ 07087

Import Master

Operating System: UNIX* (System V)

Keywords: • Billing • Inventory • Order entry
• Purchasing

Memory required: 64K minimum.

This complete software system for footwear and garment companies that import most of their products handles factory orders and in-stock orders. Comprehensive inventory control, factory purchase-order processing, order tracking, bill-of-lading processing, L/C tracking, and customs and factory documents are prepared. Shipping advice for a particular order is tracked and is available as a report.

This system eliminates the administrative burden associated with importing goods and provides correct, up-to-date information on customer and factory orders. Optional modules include accounts payable, accounts receivable, and general ledger.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$7500 - \$20,000

Contact: Matthew B. Brosious
(212) 221-3016

COMPUTER MASTERS INTERNATIONAL CORP.
39 West 38th Street
New York, NY 10018

Inventory

Operating System: RT-11, TSX-PLUS

Keywords: • Inventory • Warehousing

video screens; expandability to incorporate future hospital and laboratory requirements; reduction of personnel time in the laboratory and interrelated departments; full compliance with JCAH, CAP, and other accrediting agency standards, requirements, and guidelines; and complete interface capabilities with the hospital's main computer system for ADT, test requisitioning, inquiry of patient data, billing, STAT reporting, and so on.

Price: \$125,000 – \$200,000

Contact: Rick Hully

(617) 839-5383

HIAS, INC.

296 Providence Road

S. Grafton, MA 01560

Laundry Production and Control System

Operating System: DSM

Keywords: • Billing • Inventory • Medical
• Property management

Distribution medium: magnetic tape.

This system provides a central hospital service with complete control of all laundry activities. The system maintains an account of laundry material received by and delivered to each hospital and/or hospital section. This system automatically charges for the quantity of processed and replaced items on a biweekly basis. Each hospital area can receive clean laundry based on a schedule determined by a delivery category: standard, soil count, and weight after wash. A daily production report and a daily delivery report are generated. Other biweekly and monthly reports are available for overall management of the laundry service.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Dr. Richard C. Howe, Director of Marketing
(804) 857-4551

HOSPITAL DATA CENTER OF VIRGINIA

962 Norfolk Square

Norfolk, VA 23502

MAPS (Medical Accounting Patient System)

Operating System: RSTS

Keywords: • Accounting • Billing • Dental • Medical

MAPS offers timely reporting, accounting, and analyses for a single physician or a clinic. Reports and analyses can be made by department, physician, location, current month, and year to date. Demographic information of patient and/or guarantors can be retrieved

instantaneously. MAPS is a complete financial package that has interacting payroll, general ledger, and accounts payable and receivables.

The system can schedule appointments; prepare insurance forms; reduce disallowed insurance claims through correct procedure codes; post to patient accounts, allowing immediate payment of month-end billing; improve collection percentages by monitoring delinquent accounts and preparing stimulating notices; eliminate lost billings by accounting for all charge vouchers; allow more time for patient care by reducing the time spent with clerical work; and improve patient relations by providing accurate and timely information regarding patient accounts.

Each program produces daily, weekly, monthly, or year-end analysis reports.

A version of this product is available for the VAX computer.

Price: \$1500 - \$20,000

Contact: William R. Paschal, Jr.

(405) 843-7323

DATATEK CORP.

818 N.W. 63rd

Oklahoma City, OK 73116

MBS (Medical Billing System)

Operating System: CTS-300, RSTS, RT-11, TSX-PLUS

Keywords: • Accounts receivable • Billing • Medical

This time-sharing system for a single or group practice manages all phases of accounts receivable for specialty groups. MBS records charges, payments, and adjustments by physician and place of service. The system provides daily journals and balance procedures and regular and cycle billing. MBS provides an extensive history of procedures performed, aged trial balances, collection notices, insurance processing, automated claims transmission, and management reports.

A version of this product is available for the VAX computer.

Price: \$1000 - \$10,000

Contact: Ed Kelleher, President

(803) 796-8858

MACRO, INC.

121 Professional Avenue

West Columbia, SC 29169

Medical Billing and Accounts Receivable

Operating System: DSM

Keywords: • Accounts receivable • General ledger
• Sales analysis

This product is written in ANSI standard MUMPS and runs on DIGITAL micros, minis, and VAXs. This table-driven product accommodates the needs of laboratory billing, as well as radiology, cardiology, and individual practitioners. The system provides a variety of fee schedules, special prices, and automatic price changes. Multiple insurance carriers may be billed, using claims, tapes, or electronic transmissions, as well as direct patient and client billing. The system also generates a complete set of financial and sales analysis reports.

A version of this product is available for the VAX computer.

Price: \$15,697 - \$60,375

Contact: Richard R. Brink
(214) 422-1022

ANTRIM CORP.

101 E. Park Boulevard, Suite 855
Plano, TX 75074

Medical Management System

Operating System: RSTS

Keywords: • Accounts receivable • Billing
• Financial management • Medical

This customized accounts receivable package for medical offices provides better financial management, statistical and analysis reporting, increased productivity and patient flow, and produces insurance forms with patient statements. MMS allows complete maintenance of each master file, including add, change/inquire, and delete options; is menu driven and user friendly; prints alphabetical patient listing or patient list by account number, by physician or referring physician, or by primary diagnosis; allows complete maintenance of transactions, including add, change/inquire, and delete options for each type of transaction, such as services, payments, estimates, and adjustments; provides up-to-date responsible-party billing, prints statements, insurance forms, mailing labels, and Rolodex cards for scheduling and insurance work stations; automatically updates a patient's record for payment received and services provided and provides instant account status of every patient; provides the ability to schedule, confirm, and print out daily appointments; and automatically interfaces with MCBA General Ledger Software release 2.0.

Price: \$7500 - \$20,000

Contact: Mohyeddin K. Abdulaziz
(602) 792-9293

INTEGRATED DATA CORP.
2424 E. Broadway, Suite 106
Tucson, AZ 85719

Medical Office Manager

Operating System: CTS-300, RSTS

Keywords: • Accounts receivable • Dental • Medical

This software, written in DIBOL, was designed to increase the cash flow of the professional office. This program, in a remote batch entry mode from a microcomputer or an on-line data entry for service bureaus, produces:

- Year-to-date detail produced on microfiche or hard copy on a weekly basis. This simulates on line for remote batch clients without the expense. This report contains every one that has entered the practice for the year.
- Account summary, which holds name, account number, phone number, last charge date amount, last payment date and amount, and type, account balance, billing status, delinquent status, batch listing, and aging of receivables.
- Alphabetical listing for anyone ever in practice.
- Statements.
- Delinquent documents for tracking activity on accounts.
- Doctors' reports and business analysis.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Royal Eccles, Vice President
(801) 394-0171

MANAGEMENT SCIENCES
905 24th Street
Ogden, UT 84401

Medical Records System

Operating System: DSM

Keywords: • Data base management • Medical
• Report writer • Statistics

Distribution medium: magnetic tape.

The HDCV Medical Records System combines abstracting medical records and information about federally funded patients for the Professional Standards Review Organization (PSRO). This system features on-line data entry, batch processing of medical records, and production of magnetic tapes for PSRO processing. The system interfaces with the HDCV Patient Data Management System (PDM) to

automatically transfer patient information and retroactively enter medical record information. A batch computer is used to process the medical records and to produce medical record reports. To meet JCAH requirements, the system produces statistical data by physician, diagnosis, and operation; patient indexes; service; death list; as well as reports on hospital-designated optional data.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Dr. Richard C. Howe, Director of Marketing
(804) 857-4551

HOSPITAL DATA CENTER OF VIRGINIA
962 Norfolk Square
Norfolk, VA 23502

Medication/Treatment Sheet System for Nursing Homes

Operating System: CTS-300, RT-11, TSX-PLUS

Keywords: • Medical • Pharmaceutical

Distribution media: RK01, RK02, RX01, RX02.

This program maintains all medications, treatments, diagnoses, diets, activities, and census information for each patient of the nursing home facility. The program prints medication sheets, treatment sheets, physicians' orders, census summaries, and a wide array of analytical reports that can be used for studies showing correlations in various fields (such as the number of a certain diagnosis occurring in a specific age group).

The software can retain history or purge a set of transactions for a certain time period. Thus, the program gives the operator the chance to recreate any activity for as far into history as the file has been purged.

A version of this product is available for the VAX computer.

Price: \$1500 - \$4500

Contact: Larry Triplett, President
(614) 826-7678

TRIAD DATA PROCESSING
36 E. Main Street
New Concord, OH 43762

MediCom®

Operating System: ULTRIX-11, UNIX* (System III, System V, Version 7)

Keywords: • Dental • Medical • Scheduling
• Word processing

MediCom is a medical management system that can help run a physician's office efficiently and accurately. MediCom keeps track of all medical codes (ICDA, CPT), insurance, payments, recalls, statements, G/L, family billing, and guarantor reference accounts. Patient history in a data base and open-item and balance-forward billing make this a state-of-the-art package. MediCom is written in RM/COBOL for flexibility.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$1000 - \$2500

Contact: Don Walkup

(312) 931-1400

ICS COMPUTERS, INC.

37 Fountain Square Plaza

Elgin, IL 60120

MEDICOMS (Medical Office Receivables Management System)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts receivable • Billing
• Data base management • Medical

This total receivables management package for medical offices can satisfy the requirements of a single-doctor private practice, a multidoctor practice, or a general medical clinic. The package supports the generation of patient statements and third-party insurance claim forms preparation. The system manages receivables, tracking productivity and aging open accounts and providing flags and messages to aid collection. Included with this function is a delinquent-collections subsystem. Secondary benefits of the system provide for medical analytical abilities using CPT and ICD-9 standard codes for diagnosis and procedures. The menu-driven, operator-friendly package has been time tested and has been installed in user environments for more than six years.

Price: \$7500 - \$12,500

Contact: J. Elliott Haney, Jr.

(502) 926-4781

DATAMAX COMPUTER CORP.

3520 New Hartford Road, P.O. Box 1862

Owensboro, KY 42301

MEDISYS, Version 432

Operating System: RSTS, RSX, RT-11

Keywords: • Accounts receivable • Billing • Insurance
• Medical

MEDISYS, developed by Small Business Systems, is an in-office medical management, billing, insurance, and collection control system. MEDISYS keeps up to five years of patient accounts for all diagnosis and service details. MEDISYS can accommodate 1 to 15 doctors and up to 50,000 patient accounts on a single 10-megabyte disk. MEDISYS stores comprehensive patient data, offers rapid posting, has reception office inquiry modes, provides total management reports, automatically produces bills and insurance forms, has absolute collections control, and even tests itself to guarantee data integrity and ensure pilfer-proof security. MEDISYS is user friendly, with office procedure-related instructions for each step on data input.

DIGITAL distributes this product under license from Small Business Systems, Inc., 10030 N. 25th Drive, Phoenix, AZ 85021, (602) 997-8310.

Refer to SPD #A0.53.00 when requesting further information on this product from your local DIGITAL sales office.

Price: \$6000 - \$8500

Contact: Consult your local DIGITAL sales office (see Introduction).

MESTAMED

Operating System: CTS-300, RSTS

Keywords: • Accounting • Information management
• Inventory • Order entry

MESTAMED is a computerized accounting and management information system designed for the durable medical equipment dealer.

Price: \$29,500 - \$160,000

Contact: Pete McConnell
(412) 823-7440

MCS, INC.

400 Penn Center Boulevard
Pittsburgh, PA 15235

MPMS (Medical Practice Management System)

Operating System: RT-11

Keywords: • Accounts receivable • Billing • Medical

Memory required: 40K.

This easy-to-use, versatile, in-office medical management system can satisfy the needs of a single-doctor practice, multidoctor practice, or even a multipractice office. MPMS features:

- Patient data records keeping (53 data fields of demographic, billing, accounting, and history information, including 3 insurance policies, 4 diagnoses, 1 user-definable field, and 41 user-accessible fields)

- Transaction processing (with daily reports and accounts receivable reviews)
- Billing and receipts (with flexible control of bill printing, billing messages, and billing statuses)
- Insurance claims management (including automatic filing of insurance claims)
- Hospital in-patient tracking for any number of doctors treating any number of patients in any number of hospitals or other places of service)

The system offers comprehensive management reporting, including six revenue reports and patient data reporting in three formats that have extensive selection criteria. MPMS provides a complete interface to a set of office automation tools from Saturn Systems, including word and list processing, electronic spreadsheet, business graphics, and data base management.

The system, written in DBL, is available to DIGITAL OEMs, other VARs, and end users.

Price: \$5000 - \$10,000

Contact: Mitchell R. Sowards
(512) 692-0953

DATA PROCESSING SERVICES, INC.
8746 Wurzbach, Suite 203
San Antonio, TX 78240

MRS (Medical Records System)

Operating System: RSTS

Keywords: • Data collection • Medical • Mental health
• Statistics

This program is fully integrated with PAIS (Patient Accounting and Information System) and operates from a common data base. MRS accepts up to nine diagnoses in ICD-9 coding, maintains medical and psychological profiles on patients, and evaluates the level of care.

Price: Available upon request

Contact: David M. Pollack
(914) 423-3623

ADL DATA SYSTEMS, INC.
50 Stratton Street South
Yonkers, NY 10701

Multilab — Comprehensive Clinical Laboratory Information System

Operating System: DSM

Keywords: • Information management • Instrumentation
• Medical

This flexible real-time laboratory management system interfaces directly with automated laboratory instruments. Multilab's data acquisition program speeds and simplifies the processing of vital test information in work-listed batches.

A special modeling function lets users create programs to adapt Multilab to the operating parameters of individual laboratories. That function also allows the user to add or modify aspects of the packaged system to keep pace with changes in laboratory procedures.

Multilab is an interactive system. The operator communicates with the system through a simple question-and-answer dialog using standard laboratory abbreviations. No knowledge of computer programming is required. Built-in self-teaching functions allow the user to obtain clarification.

Operator-controlled functions include display of pertinent system information for monitoring or troubleshooting. Routine problems are spotted and quickly corrected, by means of a built-in comprehensive list of common error diagnoses and corrective procedures. The billing portion of the Multilab program determines which tests are billable and automatically updates statistics, produces a report, and creates a magnetic tape copy for storage.

A mailbox function allows authorized persons to "broadcast" messages to laboratory personnel. New or updated mailbox messages are displayed for review when technicians log onto the system.

Patient-oriented features include the ability to track patient admissions, transfers, and discharges; to provide detailed administrative reports; to output customized forms; to generate collection lists, such as patient names, floor listings, tests required, and so on; and to prepare daily, interim, and cumulative patient reports for physician, hospital, or internal laboratory use.

Laboratory-oriented features include the ability to track specimens from log-in to check-off; to automatically print out Aliquot and back-up labels for specimen containers; to create customized work lists for specimen control, record keeping, and batch entry of result data; to provide work list status reports; to access test results for Delta Check verification; to produce a variety of standard and nonlaboratory management reports, such as master specimen lists, abnormal and pending results, and quality control statistics; and to maintain daily, monthly, and yearly workload tallies.

The system permits archive storage of test results and discharge reports on magnetic tapes and captures data in duplicate on a back-up tape.

Price: \$65,000

Contact: Matthew Ehrlich

(516) 764-5953 or (800) 645-5959

ADVANCED MEDICAL SYSTEMS

36 Maple Avenue

Rockville Centre, NY 11570

Multipharm

Operating System: DSM

Keywords: • Inventory • Medical • Pharmaceutical

This pharmacy system helps the pharmacy department distribute drugs more efficiently by keeping up-to-the-minute records of patient admissions, discharges, and transfers. The system screens each order at entry for drug/allergy, drug/drug, drug/food interactions, and I.V. incompatibility. The system also keeps precise track of orders for inventory control.

The system improves communication between the pharmacy and nursing stations by providing common access to patient information. The system also issues a medication discharge summary report, which the pharmacy can use as its dispensing document.

Price: \$55,000

Contact: Matthew Ehrlich

(516) 764-5953 or (800) 645-5959

ADVANCED MEDICAL SYSTEMS

36 Maple Avenue

Rockville Centre, NY 11570

NHIS (Nursing Home Information System)

Operating System: Independent, RT-11, TSX-PLUS

Keywords: • Accounting • Medical • Payroll

This menu-driven accounting system, designed to maximize productivity and enhance the profitability of nursing home and ACLF facilities, includes Patient Trust, with Medical Records, Electronic Claim Submission, and Utilization Review modules to be added. Backup support is provided by PSI's team of technical and accounting consultants. Current regulations and financial requirements are incorporated into all NHIS programs, which are continually being updated to meet changing regulations and guidelines.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Philip Cox

(904) 378-4040

PROFESSIONAL SYSTEMS INTEGRATION

P.O. Box 14545

Gainesville, FL 32604

Order Entry System

Operating System: DSM

Keywords: • Data base management • Medical • Order entry
• Statistics

Distribution medium: magnetic tape.

The HDCV Order Entry System provides interdepartmental communications to expedite and control nursing and ancillary services. Patient orders are placed electronically with a wand/bar code, manual keyboard, or optional touch screen. Charges for the orders are automatically produced for the hospital billing system. The system is governed by a master control profile that is available only to key hospital personnel. Profile functions are used to define frequencies, charges, requisitions, and report formats. The system provides comprehensive lists of departmental services that may be ordered and services that may be charged. The Order Entry System provides instant access to patient information, a complete document of patient care, and an efficient means of placing patient orders throughout the hospital.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Dr. Richard C. Howe, Director of Marketing
(804) 857-4551

HOSPITAL DATA CENTER OF VIRGINIA

962 Norfolk Square

Norfolk, VA 23502

PAID (Physicians Automatic Invoicing and Data)

Operating System: RSTS

Keywords: • Accounts receivable • Billing • Medical

PAID, used since 1979 in an on-line time-sharing environment, can support multiple clinics and specialties. The in-house version has the flexibility to meet most of the needs of a solo or group practice without additional programming.

The system offers a complete audit trail of all financial entries to ensure total control; extensive checking to reduce data input errors; complete account information, either in an aged summary or in detail for answering patient telephone inquiries; and individualized procedure codes, including modifiers, descriptions, and prices. Diagnosis codes are maintained either individually or through a central file. Special messages and individualized dunning messages for each user are provided, selected automatically and based on the aged balance and payment transactions. Statement codes that allow exceptions on dunning messages, statements, and finance charges are provided. Automatic batch processing of programs is provided for cyclically generated reports.

Reports generated by PAID include edit, patient journal, accounts receivable, production analysis, year-to-date production revenue, delinquent accounts, budget payments, agency suspense, and others.

A medical statistics screen is available that allows the user to track medical information by patient.

Price: \$7500

Contact: Dick Pugh

(206) 343-5656

MED-DATA, INC.

800 4th and Battery Building

Seattle, WA 98121

PAIS (Patient Accounting and Information System)

Operating System: RSTS

Keywords: • Accounts receivable • Billing • Data collection
• Statistics

This program provides an accounts receivable system for health care facilities and includes admissions, discharges, transfers; cash receipts; ancillary charges; private and third-party billing by magnetic tape or hard copy; and patient statistics.

Price: Available upon request

Contact: David M. Pollack

(914) 423-3623

ADL DATA SYSTEMS, INC.

50 Stratton Street South

Yonkers, NY 10701

Paramedics Billing

Operating System: RSTS

Keywords: • Accounts receivable • Billing • Insurance
• Medical

Distribution media: 9-track 800/1600 bpi magnetic tape, RK07, RL01, RL02.

Paramedics Billing is a simple-to-use, interactive, comprehensive, and complete method for charging and billing for paramedics' or ambulance runs by private firms or government agencies. Included are integrated insurance filing, accounts receivables, statistics, aging, and so on.

A version of this product is available for the VAX computer.

Price: \$5000 - \$8000

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

PAS-11/M (Professional Accounting Series-11/Medical)

Operating System: RSTS, RT-11

Keywords: • Accounting • Insurance • Medical

Memory required: 512KB.

This software, written in FORTRAN, provides eight applications:

- Accounts receivable features automatic statement-form preparation, detailed aging reports, delinquent-account reports, and practice analysis and management reports. All accounting data is retained on line for the fiscal year.
- Complete accounts payable functions include cash or accrual-basis accounting, automatic check writing, vendor data files, and detailed aging reports.
- An integrated general ledger accounting system is available and may be tailored to an accountant's specifications. Extensive financial reports are included.
- The insurance system features automatic third-party insurance billing with multiple insurance companies for each patient, using preprinted insurance forms approved by the AMA Council on Medical Service. Insurance claim data may also be sent to Medicare/Medicaid and Blue Cross/Blue Shield by telephone modem connection. (The modem is included with the software maintenance contract.)
- Financial reporting includes management and productivity reports.
- For appointment scheduling, the system allows appointments to be set up more than 1½ years in advance. The system prints a daily or a weekly schedule.
- A patient data base allows items to be sorted in any order. An easy and reliable method to back up patient data is provided. The user may access records with display of patient name, address, phone number, billing status, and location in hospital.

- Payroll features payroll check writing and computation and compilation of data to prepare government payroll reports.

Other features include text processing, chart labels, mailing labels, and compatibility with other application software.

A version of this product is available for the VAX computer.

Price: \$5000 – \$30,000

Contact: Richard J. Barton II
(512) 690-9062

TEXAS PROCESSOR INC.
4107 Gardendale
San Antonio, TX 78229

PASS (Payroll and Staffing System)

Operating System: RSTS

Keywords: • Employment • Payroll • Statistics

Developed for health care facilities, PASS features fringe benefit accruals, overtime reports, full-time equivalency (FTE) calculations, and customized reporting for union-based welfare and pension funds. This system can be integrated with a computer-based timekeeping and attendance system, which is available separately. PASS is fully integrated with PINS (Personnel Information System), which includes a wide variety of reports and data collection required by various federal and state agencies.

Price: Available upon request

Contact: David M. Pollack
(914) 423-3623

ADL DATA SYSTEMS, INC.
50 Stratton Street South
Yonkers, NY 10701

Pathology Billing

Operating System: RSTS

Keywords: • Billing • Medical • Statistics

Distribution media: 9-track 800/1600 bpi magnetic tape RK07, RL01, RL02.

Pathology Billing provides the statistics, billings, and reporting for laboratories that bill to individual patients and/or to doctor or hospital groups. The system components are interactive, friendly, and complete — for an in-house or a time-share system.

A version of this product is available for the VAX computer.

Price: \$20,000 - \$24,000

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

Patient Accounting System

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts payable • Dental • Medical
• Scheduling

The Promedics Patient Accounting System provides for all the functions of a medical or dental office, including audit trails, statement and insurance form generation, management reporting, accounts receivable, patient recall and scheduler, and electronic claim submission. Minimum hardware configuration of 10-megabyte storage provides for 7500 patients and 75,000 transactions.

A version of this product is available for the VAX computer.

Price: \$6000 - \$25,000

Contact: Robert Brehm
(415) 961-2401

PROMEDICS DATA CORP.
2432 Charleston Road
Mountain View, CA 94043

Patient Information and Billing System

Operating System: RSTS

Keywords: • Billing • Financial analysis • Medical

This package provides a comprehensive patient information system in which demographical, medical, diagnostic, financial, and hospital data from admissions through discharge is recorded and retained for short- and long-term reporting. The capabilities are designed to meet the needs of small to medium-size hospitals, home health agencies, clinics, and large medical groups.

The system features automatic generation of daily charges from censuses; flexible coding schemes; automatic pricing; segmented and consolidated reporting; recording of referrals and preadmissions; third-party billings, including UB-82; retention of historical data; daily, monthly, quarterly, and annual reports; and medical, statistical, and financial records.

The system may be operated in a multiterminal/multilocation environment and is written in BASIC-PLUS-2.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Wayne Abbott
(404) 882-9226

ABBOTT, JORDAN AND KOON
202 W. Haralson Street
Lagrange, GA 30240

Payables

Operating System: DSM

Keywords: • Accounting • Accounts payable

This product is written in ANSI standard MUMPS and runs on DIGITAL micros, minis, and VAXs. This table-driven product creates and produces payables checks as well as provides for the complete control of payables. This system allows you to take discounts when they are most advantageous as well as to distribute your payables to various general ledger accounts.

A version of this product is available for the VAX computer.

Price: \$2415 - \$13,282

Contact: Richard R. Brink
(214) 422-1022

ANTRIM CORP.
101 E. Park Boulevard, Suite 855
Plano, TX 75074

Payroll

Operating System: DSM

Keywords: • Payroll

This product is written in ANSI standard MUMPS and runs on DIGITAL micros, minis, and VAXs. This table-driven product provides the necessary processing of payroll for salaried and hourly employees; handles multiple corporations, credit union deductions, and employee loans; and automatically creates tax deposit checks as well as other required filing forms and lists.

A version of this product is available for the VAX computer.

Price: \$2415 - \$13,282

Contact: Richard R. Brink
(214) 422-1022

ANTRIM CORP.
101 E. Park Boulevard, Suite 855
Plano, TX 75074

PDM (Patient Data Management System)

Operating System: DSM

Keywords: • Data base management • Insurance • Medical
• Statistics

Distribution medium: magnetic tape.

This system provides on-line control of patient registration and census functions, provides pertinent guarantor and insurance data used by the financial systems, and establishes a comprehensive data base used by other HDCV medical systems. All registration areas of a hospital may use this system to preadmit, register, transfer, and discharge patients. The PDM System also provides immediate bed-availability inquiries, standard reports, and other statistical reports related to patient activity. A complete master patient index stores user-defined historical patient information.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Dr. Richard C. Howe, Director of Marketing
(804) 857-4551

HOSPITAL DATA CENTER OF VIRGINIA
962 Norfolk Square
Norfolk, VA 23502

PFS (Patient Funds System)

Operating System: RSTS

Keywords: • Accounts receivable • Financial analysis

This program is fully integrated with PAIS (Patient Accounting and Information System). PFS tracks patient allowances under Medicaid for long-term care facilities. This is required to maintain separate accounts for patients' own funds. PFS is automatically keyed off from Medicaid A/R.

Price: Available upon request

Contact: David M. Pollack
(914) 423-3623

ADL DATA SYSTEMS, INC.
50 Stratton Street South
Yonkers, NY 10701

Pharmacy

Operating System: DSM

Keywords: • Billing • Medical • Pharmaceutical

This system collects and verifies customer information at the point of sale; performs and records all Rx information, functions, and printing; and provides activity reports to help manage your business and growth. Reports include Rx activity, patient yearly statements for tax or insurance needs, and more.

The system provides features for patient registration, prescription processing, a doctor's file, a price file, drug warning labels, and sig and phrase translation. Rx inventory management, generic and brand-name cross-references, third-party claims, and accounts receivable are included as well.

This system is suited to nursing homes. Administrative functions, such as nursing home billing with patient detail, are covered. RPH functions, such as sorting batch labels by home, patient, location, or drug, are provided too.

A version of this product is available for the VAX computer.

Price: \$7500

Contact: Jon Springer, President
(617) 828-1529

WORLD-WIDE COMPUTER RESOURCES
127 Tolman Street
Canton, MA 02021

Pharmacy System

Operating System: DSM

Keywords: • Data base management • Medical
• Pharmaceutical • Statistics

Distribution medium: magnetic tape.

The HDCV Pharmacy System provides a complete unit drug distribution system. The unit dose concept permits the pharmacist to control management of medications, documents the patient medication history for the physician, and facilitates more efficient administration of medication by the nurse.

The Pharmacy System produces a daily medication profile for each patient. Upon request by the pharmacist, the computer prints labels for the medication orders. The system provides monthly drug usage statistics, based on doses of medications by drug, nursing unit, physician, and total hospital. In addition, the Pharmacy System automatically generates charges for regularly scheduled patient medications and allows for additional charges or credits as necessary. Numerous reports are available throughout the system.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Dr. Richard C. Howe, Director of Marketing
(804) 857-4551

HOSPITAL DATA CENTER OF VIRGINIA
962 Norfolk Square
Norfolk, VA 23502

Physician Systems

Operating System: M (MUMPS)

Keywords: • Accounting • Billing • Forecasting
• Scheduling

IDS software applications include Billing and Accounts Receivable, Patient Scheduling, Paperless Collection, General Ledger, Accounts Payable, and Financial Forecasting. IDS has serviced the medical community since 1969, providing services to physician group practices, hospital clinics, and university-affiliated-practice plans. Innovations introduced by IDS include open-item posting, profile monitoring, automatic claims tracing, and user-defined management reports. All IDS systems are real time and integrated and are offered on both a time-sharing and a stand-alone basis.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Robert Galin
(617) 566-6800

INTERPRETIVE DATA SYSTEMS, INC.
882 Commonwealth Avenue
Boston, MA 02215

Practice Management System

Operating System: RSTS

Keywords: • Accounting • Dental • Insurance • Medical

This comprehensive accounting software package is designed to meet the varied needs of many medical and dental practices. With easy-to-read screens and menu-driven prompting, the system provides instantaneous access and update of both patient records and billing information and automatically prints forms, invoices, and reports. System applications include billing, collecting, and insurance reporting; managing accounts receivable; organizing visitation history information; and storing practice management information and sorting by patient, diagnosis, procedure, and type of service.

The system works within the data processing capabilities of a mini-computer but requires no technical expertise to operate. Complete training programs and literature are provided.

Price: \$3000 - \$5000

Contact: E. Jackson Smith
(301) 296-9032

SMITH, ABBOTT, AND COMPANY, INC.
300 E. Joppa Road
Baltimore, MD 21204

PRN-1 Pharmacy Package

Operating System: RSTS

Keywords: • Billing • Inventory • Pharmaceutical

PRN-1, designed by a registered pharmacist and written to handle all aspects of pharmacy procedure, can be customized to meet specific needs and modified to meet each state's individual requirements. PRN-1 can fill and refill prescriptions, create labels, warn the pharmacist of drug interactions, show generic substitutions, and maintain patient profiles. The system contains a 3500-item drug file to which the pharmacist can add drugs as needed. The system can control both drug and nondrug inventories. All third-party billing is provided by PRN-1 and customer statements are printed for private charge customers.

Reports generated by the system include a daily transaction report, monthly drug-usage report, Schedule II reporting on controlled drugs, and individual patient prescription purchases year to date.

The optional Nursing Home module manages the dispensing of prescriptions to each home. That module uses a batch refill program to speed the process of refilling a large number of prescriptions at a time. The optional Medicare module provides for the rental of Medicare durable goods. Other options, such as accounts payable, general ledger, payroll, and word processing, are also available with PRN-1.

A version of this product is available for the VAX computer.

Price: \$6000 - \$12,000

Contact: Stephanie Miller
(717) 569-5733

EASTERN SYSTEMS MANAGEMENT, INC.
1585 Commerce Drive
Lancaster, PA 17601

Programs for Analyzing Stress-Strain Data from Lung Parenchyma and Artery Tests

Operating System: RT-11

Keywords: • Data collection • Medical

Memory required: 12KB.

The programs Lung and Artery fit exponential-type strain energy functions to experimentally acquired stress-strain data from soft-tissue tests. One program evaluates data gathered from tests on lung parenchyma; the other program performs similar computations for artery data. Both programs are based on a modification of the Levenberg-Marquardt algorithm for the minimization of a nonlinear sum of squares. Easy portability of the programs to other computers is ensured. DECUS number 11-548.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Pulmonary Function Laboratory

Operating System: RSX, RT-11

Keywords: • Diagnostics • Medical

Pulmonary Function Laboratory is a complete package for the function lab, including on-line diagnostic programs for lung volumes, diffusion capacity, body plethysmograph, stress testing and blood gases, storage of patient data, and laboratory management.

Price: \$1500 - \$20,000

Contact: Dick Steinhäuser, President
(815) 633-6400

ERICH JAEGER

Box 10008

Rockford, IL 61131

Questionnaire Analysis System

Operating System: DSM

Keywords: • Data collection • Medical • Quality control
• Statistics

Distribution medium: magnetic tape.

This system provides a hospital with statistical information gathered from both patient and employee questionnaires. Individual hospital-designed questionnaires can be established on the system. The responses are entered directly into the system at hospital computer terminals. That information is then organized and analyzed by the system to produce monthly reports. The basic report for a questionnaire contains the raw data to each question for the current month, past month, and year to date. Trends in the responses are indicated for hospital-defined time periods. Information from the HDCV Questionnaire Analysis System can contribute to identifying potential problem areas in a hospital.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Dr. Richard C. Howe, Director of Marketing
(804) 857-4551

HOSPITAL DATA CENTER OF VIRGINIA
962 Norfolk Square
Norfolk, VA 23502

RADIO-OSCAR

Operating System: RSTS, RSX, RT-11, TSX-PLUS

Keywords: • Chemical • Inventory • Nuclear • Security

This on-line system for the control of radioactive chemical stores provides radiochemical laboratory managers with an accurate record of all current stock, together with a detailed usage history. The system is simple to use and operates by a series of question-and-answer sequences using a visual display unit and keyboard. Information is retrieved from data files instantaneously for inspection on the VDU screen or may be printed on a line printer. The total activity currently held in the stores is known at all times, and thus legal requirements can be accurately monitored.

Individual records are stored in the data base for each isotope, incorporating a reference code, description, and half-life or decay constant. Associated with each isotope are all the individual stock records for which the data base records a reference number, a description, additional reference data, units of measure, quantity on hand, specific activity at given date, purity information, and current computed activity derived from the quantity on hand. Also held for each stock item are up to 60 stock movements, which are dated and initialed and show the quantity and activity issued.

A version of this product is available for the VAX computer.

Price: £3000 - £6000

Contact: R. A. Stock
(+ 44) 734 342666

D. M. ENGLAND & PARTNERS LTD.
24 High Street
Twyford, Berkshire RG10 9AG
England

Radiology Accounts Receivable Management System

Operating System: CTS-300, RT-11

Keywords: • Accounts receivable • Billing • Insurance
• Medical

The system, designed for radiology by Radiology Business Management Consultants, performs all billing and insurance-processing functions and provides a multitude of user flexibility. One account and one statement are produced for each patient, thereby eliminating

duplication of accounts and unnecessary postage and handling. Up to 26 locations of service may be handled. The system facilitates Medicare, Medicaid, Blue Shield, Workmen's Compensation, and general insurance filing and follow-up under program control and refiling by demand. Medicare and Blue Shield insurance are filed computer to computer over telephone lines in selected states.

The system also provides a collection system that ranges from in-house status to the printing of collection notices to bad debting performed automatically on selected accounts.

Many management reports may be produced by location of service. Also available are Reading Physician Statistical Reports, Volume Reports, and an Ad Hoc Report capability on all charge, payment, and adjustment transaction information.

Price: \$12,000 - \$18,500

Contact: Jan E. Powell or Roy Maloy, D.P.A.
(904) 878-6568

MEDICAL, EDUCATIONAL AND GOVERNMENTAL
APPLIED SYSTEMS (MEGAS) CORP.

2536 Capital Medical Boulevard
Tallahassee, FL 32308

Radiology Billing

Operating System: RSTS

Keywords: • Billing • Medical • Statistics

This on-line interactive system is designed to perform billing functions and statistics collection. The system is particularly useful when charges for a patient are accumulated until the patient is discharged (from minutes to an indefinite period of time after start). A statement for services is prepared under a unique account number. If that person enters the system again for additional services, billing and statistical information is treated as another unique case.

The system is suited for a stand-alone operation or a time-sharing environment.

The programs occupy 2600 blocks. Each account number in the patient master file requires two blocks, and each test in the test master file occupies one-half block.

The Radiology Billing system accepts data from other computers; is menu/table driven; alphabetizes master file lists and reports; handles Medicare, Medicaid, Blue Cross, and/or standard insurance forms; and performs comprehensive trails, active patient lookup, complete bill handling, and statistical reporting.

A version of this product is available for the VAX computer.

Price: \$9000 - \$15,000

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

RBS (Radiology Billing System)

Operating System: RT-11

Keywords: • Billing • Information management • Medical

RMS is written in BASIC and has a capacity of 6000 active patient accounts and 120,000 transactions. RMS is suitable for a small group of radiologists who use independent billing in their hospital or office practices. RMS has the following capabilities:

- Archiving, to provide inactive accounts in hard copy, based on the date of the last transaction and balance.
- Searching by patient or guarantor's name or by insurance or social security number. The operator controls the length of the search string. Direct access is by account number. The maximum search time is about 3 seconds.
- Transaction, by automatic reference number, recovers originally filed source documents, data, type of process, referring doctor, reason for exam, location of service, interpreting radiologist, and so forth.
- Billing for any routine from single accounts to segments of the alphabet, insurance type, transaction date parameters, and minimum balance. The billing segment is modularized to accommodate new form types.
- On-demand report generation, including aged accounts receivable, credit balance list, number of times each exam is done and the dollar volume, number and dollar volume for each referring doctor, number of exams interpreted and dollar volume for each radiologist, and a delinquent list.

Price: \$2000

Contact: J. R. Monnahan, M.D., Manager
(801) 373-6564

MARI KEL
P.O. Box 531
Provo, UT 84603

RIBS (Radiology Information and Billing System)

Operating System: RSTS

Keywords: • Accounts receivable • Billing • Medical

RIBS is tailored to meet the needs of both hospital and office-based radiology practices. The system offers a complete audit trail of all financial entries to ensure total control; extensive information, either in an aged summary or in detail for answering patient telephone inquiries; and individualized procedure codes, including modifiers, descriptions, and prices. Diagnosis codes are maintained either individually or through a central file. Special messages and individualized dunning messages for each user are provided, selected automatically based on the aged balance and payment transactions. Statement codes that allow exceptions on dunning messages, statements, and finance charges are provided. Automated batch processing of programs is provided for cyclically generated reports.

Reports generated by RIBS include edit, patient journal, accounts receivable, production analysis, revenue summary, delinquent accounts, budget payments, agency suspense, credit balance, year-to-date production revenue, and others.

A medical statistics screen is available that allows the user to trace medical information by patient.

Price: \$7500

Contact: Dick Pugh

(206) 343-5656

MED-DATA, INC.

800 4th and Battery Building

Seattle, WA 98121

RPS (Regenstrief™ Pharmacy System)

Operating System:

Keywords: • Data collection • File management
• Pharmaceutical • Report writer

RPS, developed by Regenstrief Institute for Health Care, 1001 West 10th Street, Indianapolis, Indiana 46202, is a data collection mechanism for the RDB Utility package. RPS facilitates prescription processing by accepting prescription orders, providing range checks to prevent excessive dosing, computing the amount of drug to dispense and the optional package size, generating prescription labels, and maintaining on-line profiles for the patient.

Drugs can be identified by name or abbreviation and code. RPS accepts the instruction written by the physician — for example, one tab T.I.D. — and translates it into layman's terms — for example, take one tablet three times a day.

RPS serves inpatient and/or outpatient pharmacies. The system assists the administrative and management tasks of the pharmacy, including pricing and maintenance of the pharmacy formulary file, patient registration file, active physician file, and generation of special reports, such as work load by the time of day.

DIGITAL distributes this software product under license from Regenstrief Institute for Health Care.

Refer to SPD #A0.12.00 when requesting further information on this product from your local DIGITAL sales office.

Regenstrief™ is a trademark of Regenstrief Institute for Health Care.

A version of this product is available for the VAX computer.

Price: \$5000

Contact: Consult your local DIGITAL sales office (see Introduction).

RxCom

Operating System: Independent

Keywords: • Data base management • Information management
• Inventory • Pharmaceutical

This complete pharmacy management system provides medication dispensing, administration, billing, clinical review information, inventory control, and so on. Drug-to-drug, drug-to-food, drug-to-allergy, drug-to-OTC, and drug-to-disease interactions are flagged to the ingredient level. RxCom is a complete turnkey single-vendor product consisting of hardware/hardware support and software/software support. Installation and postinstallation support are offered. Varied consulting, training, and client services support can be provided on request.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Ford R. Phillips
(314) 232-9861

MCDONNELL DOUGLAS HEALTH SYSTEMS
Health Services Division
5775 Campus Parkway
Hazelwood, MO 63042

RxEXPRESS

Operating System: RSX, TSX-PLUS

Keywords: • Medical • Pharmaceutical

The RxEXPRESS is an affordable pharmacy computer system designed for the retail, nursing home, or hospital pharmacy. The system streamlines prescription filling, accelerates third-party billing to improve cash flow, and controls inventory — from drugs to sundries and perishables. The RxEXPRESS eliminates paperwork and increases efficiency.

The system features label and receipt printing, unlimited pricing methods, accurate third-party billing, automatic drug price updating, patient histories, doctor profiles, a data base of more than 70,000 drugs, drug-to-drug interaction, drug-overuse indication, I.V. incompatibilities, nursing home distribution, instant sales reports, POS interface, accounts receivable, payroll, general ledger, accounts payable, hospital version, 64-color combination CRT, color graphics sales analysis, voice entry/response, and more.

A version of this product is available for the VAX computer.

Price: \$19,500 – \$100,000 +

Contact: C. W. Pautsch
(312) 325-1800

COMCOTEC, INC.
825 N. Cass Avenue
Westmont, IL 60559

RXS (Pharmacy System)

Operating System: RSTS

Keywords: • Accounts receivable • Billing • Medical
• Pharmaceutical

This system, designed to support an in-house pharmacy for health care facilities, generates doctors' orders, treatment plans, and a medication administration record (MEDEX/MAR). RXS updates a patient profile from a common data base used by PAIS and MRS, contains drug interaction tables and allergy/contraindications, prints labels with precautionary warnings, and updates prices automatically.

A full system is available separately for retail pharmacies and contains all the above, plus additional record-keeping and billing features and a full accounts receivable module, with retail customers kept separately from nursing home receivables. Optional modules for A/P, payroll, and G/L are also available.

Price: \$5500

Contact: David M. Pollack
(914) 423-3623

ADL DATA SYSTEMS, INC.
50 Stratton Street South
Yonkers, NY 10701

SALGLA (Salivary Gland Analysis)

Operating System: RT-11

Keywords: • Graphics • Medical • Printing

This package allows one to analyze a dynamic study of the salivary glands by smoothing the curves, subtracting background, and making a compact tabular and semigraphical hard copy on the LA120 or equivalent console terminal. The program is very modular. The plotting subroutine for an LA36 terminal should be easy to modify.

Up to eight curves can be analyzed simultaneously, and up to four curve pairs are plotted on one page. Some useful subroutines are also distributed with the package. For further documentation, see file SALGLA.DOC. DECUS number 11-565.

Note: VSVLIB.OBJ and D16.SAV (sources distributed separately by DECUS, see DECUS number 11-587).

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Security System

Operating System: DSM

Keywords: • Data entry • Medical • Security • Statistics

Distribution medium: magnetic tape.

The on-line HDCV Security System protects both the patient and the hospital by controlling access to computers and patient information, tracking errors, and accumulating computer usage statistics. The Security System may be used with the HDCV Medical Records System or may function as a stand-alone system.

The security levels are created and edited by hospital administrative personnel. The system assigns each employee a unique badge number that permits access only to specified systems and routines. A terminal lock-out feature provides an additional level of security to prevent unauthorized signing on. Unlocking a terminal requires a supervisor or an administrator.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Dr. Richard C. Howe, Director of Marketing
(804) 957-4551

HOSPITAL DATA CENTER OF VIRGINIA
962 Norfolk Square
Norfolk, VA 23502

SLEEP: Programs of Analysis of Sleep-Wakefulness Data

Operating System: RSTS

Keywords: • Data collection • Graphics • Medical

Memory required: 16KW.

This series of programs analyzes data acquired from monitoring sleep-wakefulness cycles. The programs are written for cat sleep, although they could be readily modified for human sleep. A control program prompts the user for the desired option, including input of data, listing of raw data, summary tables, creation of hypnogram files for plotting, and creation of MINTAB/SAS acceptable data files. DECUS number 11-553.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Social Services Statistical Reporting System

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Billing • Government • Report writer
• Statistics

This statistical reporting/tracking system, designed for social service agencies funded in whole or in part by outside agencies and client billing, consists of Client Intake/Statistical Reporting, Accounts Receivable/Client Billing, and Accounting. The system allows single entry of information on families, extended families, or multiperson groups. The system allows a client to be enrolled in multiple agency divisions, such as psychological counseling and crisis pregnancy, without duplication of agency records.

Caseworker assignments are integrated to produce reports, including caseload count, cost analysis, and so forth. Agency reports to funding sources — for example, "United Way Summary of Agency Beneficiary Statistical Report" — thus eliminate manual case count. The Accounts Receivable/Client Billing section provides open-item or balance-forward client charges based on a sliding-scale fee based on annual income, a variable amount, a fixed amount based on type of service, or a no-charge. All detail is retained until the client is purged, thereby allowing tracking of a client's entire billing history and aging by client, caseworker, or agency division.

Statistical auditing reports listing case number, client name, and caseworker can be run to substantiate all statistical reports. All three modules are integrated into DIBS-11 G/L.

A version of this product is available for the VAX computer.

Price: \$7000 - \$10,000

Contact: Jim Baker

(404) 256-3067

AMERICAN DIGITAL PRODUCTS CORP.

5775-B Glenridge Drive N.E., Suite 320

Atlanta, GA 30328

Spectrum

Operating System: RT-11

Keywords: • Accounting • Billing • Inventory
• Order entry

Distribution media: RK06, RK07, RL02, RX01, RX50.

This powerful optical laboratory management system provides Rx order entry/invoicing and stock order entry/invoicing with automatic posting to accounts receivable, consequent Rx work ticket preparation, itemized statement preparation, aged receivables preparation, and sales analysis. A lab owner may also purchase General Ledger, Accounts Payable, and/or Payroll as combined features of a total system that can be operated by present employees, requires no previous computer experience, and is easy to use. SBG maintains a customer service organization for daily telephone consultation.

This system also maintains multiple Rx price lists, produces daily Rx and stock invoice registers, and requires no monthly licensing fee. If Spectrum features are required, Sprint is upward compatible to Spectrum with the additional monthly licensing fee.

The lab work ticket preparation tells the lab people what tools to use and how much prism to grind (based on lens-on-center blocking) and details finishing information, such as edger setting and pattern location.

Price: \$29,958 – \$250,000

Contact: Carl R. Grady, Vice President, Marketing
(608) 831-2262

SYSTEMS BY GRABER

2415 Parview Road, P.O. Box 328
Middleton, WI 53562

Sprint

Operating System: Independent, RT-11

Keywords: • Accounting • Inventory • Order entry

This modular building-block turnkey applications package, comprised of a subset of Spectrum programs, enables laboratory owners to quickly implement an order entry and accounts receivable system, with little data base building. Sprint features prescription (Rx) and stock-order entry; aged accounts receivable; itemized customer statements; Rx work ticket, invoice, and mailing label preparation; stock invoice preparation; multiple Rx price lists; daily Rx and stock invoice registers; sales analysis by customer, salesperson, and territory; automated printing of the Rx order book; and management reports, such as a daily gross profit overview and others.

The order entry process begins by entering Rx's and stock orders into Sprint, which prompts the operator for appropriate Rx information. Orders are entered while others are printed; the lab calculations necessary for grinding a lens to fit a frame are computed, and the printout is a combined work ticket, delay notice, invoice, and mailing label. Pricing is furnished when the job goes to the lab.

Additionally, Sprint reduces or eliminates lab billing errors, reduces spoilage by using more finished lens blanks or smaller blanks, and by the lab's having fewer cutout problems. Sprint also provides managerial reports to help the owner or manager operate more profitably. The system grows with the business by expansion to the Spectrum system, which entails data base building and payment of a monthly Spectrum software fee.

Price: \$29,918 – \$119,000

Contact: Carl R. Grady

(608) 831-2262

SYSTEMS BY GRABER

2415 Parview Road, P.O. Box 328

Middleton, WI 53562

Sunquest Laboratory Information Systems Flexilab

Operating System: DSM, M (MUMPS)

Keywords: • Biology • Instrumentation • Medical

The Sunquest system, written in ANSI MUMPS, supports such laboratory departments as microbiology, blood bank, and anatomic pathology/cytology, with the full functionality expected in the new generation of advanced laboratory systems. Extensive capabilities to interface various central computer or hospital information systems are available at nominal costs. Similarly, interfaces to most laboratory instruments have been established through PDP-11/23-based instrumentation subsystems. Each subsystem supports up to 20 instruments and provides both efficient processing of automated test data and backup capabilities for data retention.

A version of this product is available for the VAX computer.

Price: \$100,000 – \$700,000

Contact: Dennis Winsten

(602) 885-9056

SUNQUEST INFORMATION SYSTEMS

8835 East Speedway, Suite F

Tucson, AZ 85710

Utilization Review System

Operating System: DSM

Keywords: • Medical • Spreadsheets • Statistics

Distribution medium: magnetic tape.

This system provides a hospital with complete control of the concurrent review of all patients. The system maintains PSRO data used in certifying each patient for admission and length of stay. Patient demographic information is obtained from the HDCV Patient Data Management System and is combined with diagnostic and operative information to determine length-of-stay data. Daily worksheets are available for the utilization review coordinator.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Dr. Richard C. Howe, Director of Marketing
(804) 857-4551

HOSPITAL DATA CENTER OF VIRGINIA
962 Norfolk Square
Norfolk, VA 23502

VET-11

Operating System: CTS-300, RT-11

Keywords: • Billing • Inventory • Medical • Scheduling

This veterinarian inventory and billing system has complete patient record information and inventory management information. The system schedules future visits, treatments, and services, with owner notification reports of upcoming visits, and has a billing process, with statements or invoices printed on request. VET-11 provides sales analysis reports, complete history reports that allow quick terminal inquiry and display, an automatic interface to Accounts Receivable, plus more for accurate and time-saving business practices. Software, training, and continued support are provided.

Price: \$4500 - \$8500

Contact: Rob Whitlock
(405) 282-8600

OKLAHOMA MANAGEMENT SYSTEMS
8404 Blackberry Ridge
Edmond, OK 73034

Vet System/2000

Operating System: RSTS

Keywords: • Accounting • Medical • Payroll
• Word processing

This package provides patient history similar to Visi Record Card, automatic generation of shot reminders, client history, drug disbursements, sales analysis, accounts receivable, billing, accounts payable, general ledger, payroll, and word and list processing.

A version of this product is available for the VAX computer.

Price: \$2000 - \$20,000

Contact: Andrew Yasenchak
(201) 231-9400

UNITRONIX DATA SYSTEMS, INC.
50 County Line Road
Somerville, NJ 08876

VSV-01 Device Driver for RSX-11M

Operating System: GAMMA-11, RSX

Keywords: • Device drivers/handlers • Graphics • Medical
• Nuclear

This driver allows RSX-11M tasks full control of the DIGITAL VSV-01 Nuclear Medicine Image Display. Character display, vector graphics on a 256 x 256 display grid, image display, loading of color translation tables, interactive joystick input (requires an NCV-11), and cross-hair control are supported. The driver may be incorporated without a SYSGEN into any RSX-11M system with loadable driver support. Four bit maps must be present for 256 x 256 graphics; two bit maps allow 256 x 128 graphics. DECUS number 11-470.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Information Management



Black Star Publishing Company/Victor De Palma

A-to-Z Data Inquiry, Version 1.5

Operating System: Micro/RSX

Keywords: • A-to-Z • Data base management • Office systems

Distribution medium: RX50.

A-to-Z Data Inquiry is designed to create impromptu reports and terminal queries from existing data files. Through the use of English-like commands, a novice can design the desired output without the need for programming.

A-to-Z Data Inquiry uses dictionaries to describe data files. Logical field names assigned to each field are used with A-to-Z Data Inquiry commands to extract the desired data.

A-to-Z Integrated System, Version 1.0, is prerequisite.

Refer to SPD #18.17.01 when requesting further information on this product from your local DIGITAL sales office.

Price: \$400

Contact: Consult your local DIGITAL sales office (see Introduction).

Action List

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Architecture • Civil engineering
• Project management • Scheduling

This system, used by project managers for expediting, progress chasing, and document control, complements Project Software's forward-looking planning and cost control system, the Project Cost Model. Action List is used to establish schedules itemizing information outstanding, drawing requirements, or materials procurement programs. Those define what needs to be done, by whom, and when. Action List is then updated regularly and used for progress chasing, recording what has been done, and highlighting critical items needing action. The system ensures that decisions are taken on time and that drawings, specifications, and other documents are completed and distributed when required.

Action List includes a flexible report writer that allows users to select what information is presented on reports.

Project Software has subsidiaries and distributors in the United Kingdom, United States, South Africa, Australia, and other parts of the world. In the United States, contact John Gillespie (212) 624-2587, Project Software Inc., 257 Hicks Street, Brooklyn, NY 11201.

A version of this product is available for the VAX computer.

Price: £1500 – £3000

Contact: Martin Barnes, Director
061-439 6639 or Telex: 666650

PROJECT SOFTWARE LTD.

Foden Lane, Woodford

Stockport, Cheshire SK7 1PT

United Kingdom

ADT-DMS (Data Management System), Version 2.0

Operating System: RSX

Keywords: • Data dictionary • Data entry

This end user-friendly data management system is menu driven and data dictionary-based for maximum flexibility and is based on RMS for compatibility and transportability. ADT employs fourth-generation language and data management techniques and provides data entry, data maintenance, on-line inquiry, ad hoc report generation, and automatic screen generation.

ADT is appropriate for almost all information management environments.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Randolph J. Reece

(303) 987-1001

INTERACTIVE SOFTWARE SYSTEMS INC.

P.O. Box 27466

Denver, CO 80227

Ambase

Operating System: RSTS

Keywords: • Data base management • Query facilities
• Report writer

Ambase is a comprehensive, interactive, user-oriented data base management system and application development tool. Features include SCHEMA control, data access with simultaneous multiuser processing, and contention supported and handled by Ambase with application programmer intervention. In addition, Ambase includes report and screen-formatting code-generation tools and a powerful query facility.

A version of this product is available for the VAX computer.

Price: \$7000 - \$37,000

Contact: Marketing Department
(502) 491-9820 or 1 (800) 626-6268
AMCOR COMPUTER CORP.
1900 Plantside Drive
Louisville, KY 40299

ARCHON: ADMS (Association Data Management System)

Operating System: RSTS

Keywords: • Data base management • Mailing lists
• Recruiting • Word processing

ARCHON: ADMS keeps accurate records on membership management, meetings and conventions subscriptions, political action, and library management. The software combines data from different departments and provides new information, allows on-site customization, and shares data with other systems, such as financial, word processing, and fund raising, to automatically produce letters to members.

Information on this product is also available from Larry L. Eastland, (703) 893-4494, QUODATA Corporation, McLean Office Centre, Suite 614, 6845 Elm Street, McLean, VA 22101.

A version of this product is available for the VAX computer.

Price: \$8900

Contact: Ila Sunshine
(203) 728-6777
QUODATA CORP.
266 Pearl Street
Hartford, CT 06103

ARCHON: QDMS (Quodata Data Management System)

Operating System: RSTS

Keywords: • Data base management • File management
• Report writer

QDMS allows instant access to vital information by anyone, at minimal cost. Not so much a solution as a tool, QDMS is the result of many years of experience integrating the needs of users with computer power to produce solutions that are efficient and easy to use. New insights on data manipulation and programming techniques produce a comprehensive information management system that is flexible and reliable. Features include minimum hardware cost, instant reports, a generalized report generator, multikey and update capabilities, English-language dialog, video screen creation, global

updating, on-line or batch control, flexible data entry, fast sort, validity checking, linked file data structure, field-by-field protection, and multiple data types.

A version of this product is available for the VAX computer.

Price: \$19,500

Contact: Ila Sunshine

(203) 728-6777

QUODATA CORP.

266 Pearl Street

Hartford, CT 06103

Audit

Operating System: RSTS

Keywords: • Audit • Cost accounting • Operations
• Security

This sophisticated software security and documentation tool for VMS and RSTS/E operating systems allows you to create a complete audit trail of the activities of any terminal. Audit is thorough and automatic and enables any user to create simplified session documentation from his or her own terminal.

A version of this product is available for the VAX computer.

Price: \$2500

Contact: Carolyn Clyde

(801) 224-5306

CLYDE DIGITAL SYSTEMS, INC.

3707 N. Canyon Road, Suite 3-E

Provo, UT 84604

AUTOPRO (Automatic Programming)

Operating System: RSTS

Keywords: • Data base management • Data dictionary
• Programming tools • Report writer

Distribution media: magnetic tape, RL02, RX50.

The AUTOPRO data base management system allows both experienced and inexperienced users to automatically generate comprehensive systems in a simple, interactive terminal session. For complicated management information requirements, the user can generally use AUTOPRO to create a model of system requirements, including data base creation, data entry and file maintenance functions, and report generation. The professional programmer may then extend the model, using the facilities of AUTOPRO to eliminate most programming.

Many applications can be completed in one to four hours. The user uses the Data Base Manager to define data elements and the Screen Manager to create a screen to add, modify, and delete entries in the new data base. The user can specify any number of screens for data base maintenance and inquiries. The Report Writer allows the user to produce reports as needed. For word processing, the user moves information from the data base into the list processing option of the word processing system.

The Data Dictionary is the foundation for AUTOPRO. All data base creation and maintenance automatically update the data dictionary, ensuring accuracy and consistency of all data resources. The Data Dictionary supports application development for the Screen Manager, Report Generation, and Word Processing integration. The data base creation facilities are menu driven and include HELP facilities.

The Data Dictionary provides a centralized resource for your data, whether applications are developed through AUTOPRO, DIBOL, COBOL, or DATATRIEVE. This centralized facility provides control of all your corporate data, giving managers, secretaries, and application development staff easy access to those resources. DIGITAL's CDD is maintained automatically.

A version of this product is available for the VAX computer.

Price: \$1250 - \$10,000

Contact: E. Jackson Smith
(301) 296-9032

SMITH, ABBOTT, AND COMPANY, INC.
300 E. Joppa Road
Baltimore, MD 21204

Bar-Coded Systems

Operating System: RT-11, TSX-PLUS

Keywords: • Inventory • Production control
• Shop floor control • Warehousing

Dennison Eastman's Bar-Coded Systems are designed to take advantage of the accuracy and speed attained with the use of bar-coded tags and labels. Bar-Coded Systems in use include Inventory Control and Tracking, Production and Manufacturing Control and Tracking, Log and Lumber Inventory, and Warehousing Control and Inventory. Our systems can fit your application, be modified, or be written to your specifications for your application.

Price: Available upon request

Contact: John Logan

(503) 297-1627

DENNISON EASTMAN CORP.
6400 S.W. Canyon Court
Portland, OR 97221

BASE/OE (Base Operating Environment)

Operating System: RSX

Keywords: • Data base management • Query facilities

This complete set of tools for managing an interactive data base environment is usually offered only through selected software packages. BASE/OE is a high-performance time-sharing system supporting multiple users on local, dial-up, or dial-out communications lines.

At the heart of BASE/OE is a hierarchical file system with multikey indexes, field directories, and strict access protection. The field directories drive general-purpose query and update processors. The file structure is relationallike, and files can be linked at run time to form complex data base views. A high-level language, BASE/PL, is also available for commercial application development. Most important, the system is integrated, and the tools can be used to complement one another. For example, a production application program can be written to maintain the data base, and the query processor can be used for ad-hoc reporting. Although BASE/OE is both comprehensive and powerful, simplicity is the primary design goal, which leads to a system that is truly approachable by the end user.

Price: \$950 - \$9500

Contact: Peter L. Wise

(303) 892-5626

INFORMATION STRUCTURES, INC.

910 15th Street, Suite 356

Denver, CO 80202

BASIX

Operating System: IAS, RSX

Keywords: • Data base management • Forms management
• Query facilities • Report writer

BASIX, a data base management system, includes menu-driven on-line inquiry and editing, forms generation and management, a report generator, self-house keeping, and security logging. BASIX supports multiple volumes with variable-length fields up to 2K bytes, variable-length records of up to 16K bytes, and files of unlimited size. BASIX is available as a stand-alone turnkey package or can be integrated with existing office or industrial automation schemes.

Price: £6000 - £6800

Contact: K. E. Archer

0296 32023

S-COM COMPUTER SYSTEMS ENGINEERS LTD.

Tower House, High Street

Aylesbury, Bucks

United Kingdom

BRS/SEARCH

Operating System: UNIX* (System III, System V, Version 7)

Keywords: • Data base management • Text management

This full text information retrieval package allows access to text. Every word becomes an index term with complete Boolean and positional operators.

The package is used for R and D reports, card catalog systems, litigation support, bids and proposals, competitive marketing summaries, and so on. Any unstructured text is suitable for data base creation.

The software features streamlined interactive dialog. Standard Boolean operators, as well as special proximity operators, provide precise retrieval at the paragraph, sentence, or word level. Full pattern matching allows right- and left-hand and embedded truncation, including truncation limiting. Powerful paragraph qualification features include postsearch qualification of search entries. Special search commands display words in the data base containing the specified stem and accept paragraph qualification. The SAVESEARCH feature stores search strategies for later recall. The system performs range searching of numeric or textual information, including the use of comparative operators. A rapid browsing capability for on-line document display and selection includes an automatic display feature for a given range of documents. Extensive print capabilities include queuing for later display or remote printing. The system also performs multiple field sorting of both on-line and queued output and a total data base security system, including data base passwords and user privilege-level control. Full text searching of multipage documents includes in-context results, within-document browsing, and word highlighting. Numeric processing capability combines free-text searching and numeric processing, such as average or total, in a single operation.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$3000 - \$40,000

Contact: Software Department

(518) 783-1161 or (800) 235-1209

BRS

1200 Route 7

Latham, NY 12110

CAIRS (Computer-Assisted Information Retrieval Systems)

Operating System: RSTS, RSX

Keywords: • Data base management • Data dictionary
• Library science

Memory required: 1.2 megabytes.

Developed by the Leatherhead Food Research Association, this cost-effective, sophisticated library automation, information retrieval, and management system for the business and library professional runs anything from the smallest single-user application system to a large, multiuser, multitasking system with millions of records. CAIRS features powerful tools providing flexibility in entering data, searching, and developing reports; includes a controlled thesaurus; provides many indexing possibilities, giving fast cross-referencing capability; features nearly identical data and commands used on micro- and minicomputers, and mainframes, making CAIRS both user friendly and system-manager friendly; and can control several libraries with one data base, each independently, having its own users, tasks, passwords, and record structures.

A version of this product is available for the VAX computer.

Price: \$1800 - \$50,000

Contact: Maxwell R. Mitchell
(800) 336-0800

INFORMATION/DOCUMENTATION

Dulles International Airport, P.O. Box 17109
Washington, DC 20041

CORTEX Application Builder

Operating System: IAS, RSX

Keywords: • Data base management • Development tools
• Programming tools • Query facilities

Designed to handle the rapid pace of change in today's business data base environment, the CORTEX Application Builder features data base management and security, screen formatting and screen data entry, an integrated data directory, an application programming language, end-user facilities, sort/merge/consolidation, report generation, and data base journaling. The Builder also includes simple query, statistical, and report-writing commands. Those facilities provide data base access for ad hoc information requirements.

The optional CORTEX Application Accelerator produces multiuser, shared, reentrant task images for high-performance applications.

A version of this product is available for the VAX computer.

Price: \$6000 - \$10,000/module

Contact: Lynn Hearl

(617) 237-2304

CORTEX CORP.

55 William Street

Wellesley, MA 02181

CYX Transaction Processing System

Operating System: RSX

Keywords: • Communications • Data base management
• Networking

This complete system creates an efficient environment for transaction processing. Designed for large-volume, multiuser, on-line applications, the system provides communications management for 3270-type BSC terminal networks and data base management for high on-line performance. The system features a layered architecture and modular design and supports a set of optional products, including IBM Reach Through, DECnet Reach Through, Report Writer, Security Control, Electronic Mailbox, Text Filing, Centralized Program Error Reporting, and Data File Maintenance.

CYX Transaction Processing manages data bases to the maximum limits of the hardware, can increase throughput by an average of 30% to 100% over general data base management systems, and provides duplicate recording, journaling, automatic transaction rollback, and full restart/recovery. CYX supports computer networking and distributed processing and allows batch processing, program development, and system maintenance functions to process simultaneously with on-line operations.

A version of this product is available for the VAX computer.

Price: \$30,000 - \$45,000

Contact: Barbara Gurstelle
(612) 835-4884

CYTROL, INC.
4620 West 77th Street
Edina, MN 55435

DTM

Operating System: CTS-300, RT-11, TSX-PLUS

Keywords: • Data base management • Data collection
• Data dictionary • Query facilities

D is a terminal-oriented real-time high-performance multiuser data base management and retrieval system. D can support more than one process accessing the data base simultaneously, through either the D multitasking system or the TSX operating system. As distributed, D is a complete information management system.

Files in the D data base are tightly coupled, with data relationships maintained by the data base software. All D data items and files are referred to using logical names. D includes numerous utilities to design, structure, and maintain the data base. The command-oriented system permits users to create, update, delete, and retrieve data. D includes a library of user-callable subroutines for data base access and user-installed commands.

Price: \$1500

Contact: Peter McWha, General Manager
(613) 820-1517

LOGICAID LTD.

97 Craig Henry Drive

Nepean, Ontario K2G 3S8

Canada

Data Base Management Package

Operating System: RT-11

Keywords: • Data base management • Report writer
• Text management

Memory required: 20KW.

This package allows small, homogeneous data bases to be quickly set up and manipulated. The data base package provides the user with the following facilities:

- A relatively simple method of defining the structure of the records making up the data base.
- A screen-oriented data base editor for creating, editing, and deleting records. The editor supports protected and data base-managed fields. Even persons with little computer experience can use the editor.
- A report-generation package for selecting specific records and generating reports. The records to be included in the report can be sorted by any field in the record, and the report format can be easily modified.
- A FORTRAN interface for accessing records in the data base from a FORTRAN mainline program. Fields in a record can be accessed through their logical names. A FORTRAN interface is also provided to the sorting module, in case the user needs to implement a special application program. The FORTRAN interface also allows the user to access two or more data bases simultaneously.

DECUS number 11-529.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Data Boss/4

Operating System: RSTS

Keywords: • Data base management • Development tools

This fourth-generation data base management system, a complete application development and productivity tool, is written in BASIC Version 2. Data Boss/4 is completely compatible with RMS and other DIGITAL-supplied utilities and greatly enhances the flexibility and ease of use of RMS.

Data base definition is accomplished interactively: Data Boss/4 requests a definition for each field, and the user responds with the field name, field, and screen attributes. An integrated set of facilities is accessed through a tailorable menu system. User-written programs can retrieve, manipulate, and update data. Those user programs can also be included in the menu system for easy user access.

Easy-to-use screen formatting plus highly sophisticated data entry and keystroke-saving techniques are an intrinsic part of Data Boss/4. VT100 compatibility also ensures high data entry productivity.

Security through menu-selection criteria and user profiles controls the use of Data Boss/4 and its host of utilities. Searches are accomplished through an easy-to-use, fill-in-the-blanks style and take advantage of Boolean logic and relational operators. Searches, such as "begins with," "contains," and "ends with," are also available.

A version of this product is available for the VAX computer.

Price: \$10,000 - \$25,000

Contact: John H. Wright
(305) 652-1710

FLORIDA COMPUTER, INC.
99 N.W. 183rd Street, Suite 126
N. Miami, FL 33169

DATATRIEVE-11, Version 3.1

Operating System: RSTS, RSX

Keywords: • Data base management • Query facilities
• Report writer • Text management

Distribution media: 9-track 800/1600 bpi magnetic tape, RK06, RK07, RL01, RL02.

This interactive query, report, and data maintenance system for the less sophisticated computer user is available on the RSTS/E, RSX-11M, and RSX-11M-PLUS operating systems. DATATRIEVE-11 uses the RMS-11K record management services to access data contained in disk files of sequential, indexed, or relative organization. DATATRIEVE-11 provides facilities for selective data retrieval, sorting, formatting, updating, and report generation without the need for programming.

Record and domain (file) definitions entered in DATATRIEVE-11 are stored in data dictionaries shared by DATATRIEVE-11 users. Data dictionaries can also be used to store frequently used sequences of commands to be recalled and processed later. Commands are provided to list the contents of the data dictionary, to delete entries, and to control access to individual entries in the data dictionary. A utility is provided to compress the data dictionary file.

DATATRIEVE-11 enables the user to define domains that cross RMS file definitions and subset record definitions. A distributed server allows remote systems connected through DECnet, transparent access to DATATRIEVE domains on the user's system.

A remote Call Interface allows the user to write programs in COBOL, BASIC, or FORTRAN to access remote DATATRIEVE domains.

DATATRIEVE-11 provides the Application Design Tool (ADT) to assist the novice user in creating domain and record definitions. The ADT uses interactive dialog to guide the user through the data definition process. The ADT creates an indirect command file that is then processed to update the DATATRIEVE Data Dictionary.

Refer to SPD #12.48.13 when requesting further information on this product from your local DIGITAL sales office.

A version of this product is available for the VAX computer.

Price: \$1200 - \$3000

Contact: Consult your local DIGITAL sales office (see Introduction).

DATATRIEVE-11/IAS, Version 3.0

Operating System: IAS

Keywords: • Data base management • Query facilities
• Report writer • Text management

Distribution media: 9-track 800/1600 bpi magnetic tape, RL02.

This interactive query, report, and data maintenance system for the less sophisticated computer user uses the RMS-11 record management services to access data contained in disk files of sequential, indexed, or relative organization. DATATRIEVE-11/IAS provides facilities for selective data retrieval, sorting, formatting, updating, and report generation without the need for programming.

Record and domain (file) definitions entered in DATATRIEVE-11/IAS are stored in data dictionaries shared by DATATRIEVE-11/IAS users. Data dictionaries can also be used to store frequently used sequences of commands to be recalled and processed later. Commands are provided to list the contents of the data dictionary, to delete entries, and to control access to individual entries in the data dictionary. A utility is provided to compress the data dictionary file.

DATATRIEVE-11/IAS enables the user to define domains that cross RMS file definitions and subset record definitions and provides the Application Design Tool (ADT) to assist the novice user in creating domain and record definitions. The ADT uses interactive dialog to guide the user through the data definition process, creating an indirect command file that is then processed to update the DATATRIEVE Data Dictionary.

The DATATRIEVE-11/IAS report writer provides easy-to-use commands to control report functions. DATATRIEVE-11/IAS uses a set of English-like commands for data retrieval, modification, and display. Prompting is automatic for both command and data entry.

DATATRIEVE-11/IAS provides a full set of arithmetic operators (addition, subtraction, multiplication, division, and negation), a set of statistical operators (total, average, maximum, minimum, and count), and automatic conversion between data types used in the FORTRAN, COBOL, DIBOL, and BASIC-PLUS-2 languages.

DATATRIEVE-11/IAS provides data encoding, decoding, and input validation capabilities through tables stored in the data dictionary. The user can also check data validity by storing validation criteria in the record definition.

Refer to SPD #12.69.02 when requesting further information on this product from your local DIGITAL sales office.

A version of this product is available for the VAX computer.

Price: \$4200

Contact: Consult your local DIGITAL sales office (see Introduction).

DATMAN (BASIC Data Manipulation Package)

Operating System: RT-11

Keywords: • Calculation aids • File management
• Query facilities • Software utilities

Memory required: 8K.

This set of RT-11/BASIC programs allows simple manipulation of numerical data stored on file. Options include stop data, print data, patch a file, merge files, copy files, selectively extract data, selectively average data, mathematical transformation of data, and file arithmetic. Options are controlled through simple question-and-answer displays. Detailed documentation is included. DECUS number 11-306.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

DBMS-11, Version 2.1

Operating System: IAS, RSX

Keywords: • Compilers • Data base management
• Language enhancers

An implementation of the 1973 and 1975 CODASYL Data Base Language Specifications, DBMS-11 provides data base facilities for PDP-11 COBOL and PDP-11 FORTRAN-77 programs and any other DIGITAL host language that supports a CALL statement or equivalent, such as FORTRAN IV, BASIC-PLUS-2, and MACRO-11.

DBMS-11 provides separate language facilities for the description and manipulation of data. That separation of data description provides for the integration of all data and data relations into a data base that is common to all application programs sharing the data.

Refer to SPD #12.66.03 when requesting further information on this product from your local DIGITAL sales office.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Consult your local DIGITAL sales office (see Introduction).

Drawing Register

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Architecture • Civil engineering • Graphics
• Project management

This system allows a register to be maintained of all drawings produced and issued on a project. In addition, the system produces a complete history of any drawing or group of drawings on request. A report can be produced of the current status and revision of each drawing so that the project management team can ensure that all organizations working on the project are using the latest issue of drawings.

Drawing Register contains a list of people and organizations that can receive drawings for a project. Each is given a reference code by the user. To issue drawings, the user needs only to enter the recipient's code with the drawings and quantities. The system produces a print delivery note that lists all the drawings required and accompanies the drawings to the recipient. The system can at any time report the recipients of any drawing and, conversely, the drawings issued to a recipient.

Project Software has subsidiaries and distributors in the United Kingdom, United States, South Africa, Australia, and other parts of the world. In the United States, contact John Gillespie (212) 624-2587, Project Software Inc., 257 Hicks Street, Brooklyn, NY 11201.

A version of this product is available for the VAX computer.

Price: £1500 - £3000

Contact: Martin Barnes, Director
061-439 6639 or Telex: 666650
PROJECT SOFTWARE LTD.
Foden Lane, Woodford
Stockport, Cheshire SK7 1PT
United Kingdom

DRS

Operating System: RSX

Keywords: • Data base management

This sophisticated general-purpose multiuser data base management system can be operated in batch or interactive mode in dedicated and time-sharing environments. Designed to solve large, complex, and diverse data base problems, DRS is particularly well suited to text-handling applications. Data bases can be created and modified quickly and easily using the data base builder (DBB) facility. DRS provides an integrated query and update capability for selection, sorting, computation, and basic reporting of numeric, textual, and date information. Extensive recovery and security features are also provided.

A report-writer facility provides a procedural language to design reports that may require multiple sort break levels; rolling and cross-foot totals; complex computations; heading, footing, and page control; numeric editing; text string manipulation; and data translation.

A combination screen builder and applications generator enables users to develop their applications efficiently and simply. Forms are easily produced that allow the user to inquire, add, modify, delete, or browse through records and fields in the data base. A host language interface allows applications written in higher-level languages to access selected information from a data base.

Line diagrams, pie charts, and bar charts can be generated. Twenty graph formats, more than 50 colors, and more than 100 graphics device drivers are available for this utility.

A version of this product is available for the VAX computer.

Price: \$15,000 +

Contact: Jim Meidel, Sales Manager
(609) 799-4600

ADVANCED DATA MANAGEMENT
15-17 Main Street
Kingston, NJ 08528

FACTS V Systems (For Accurate Control of Tire Systems)

Operating System: RSTS, RT-11

Keywords: • Data base management • Inventory
• Purchasing • Transportation

Distribution medium: RX50.

FACTS V is an integrated system of computer programs designed to build and maintain a tire data base and to generate a series of reports to provide bottom-line information control over purchasing, inventory, service, maintenance, repair, recapping, warranty adjustments, and equipment down time. The system runs interactively; the user enters all data and commands to the system from a terminal. The basic unit of information for tires is a Tire Transaction, which consists of tire costs, tread-depth measurements, tire changes on equipment, tires scrapped, and new tires put on equipment. Thus, the data base consists of the Tire Transaction file along with various reference tables. New tire transactions are collected from the Mine site, entered into the Tire System, and then merged into the Tire Transaction file. During the entry and merge, extensive error checking is performed to maintain data integrity. After the merge, the various reports can be generated. Included are management procedures to effect overall reduction in tire costs.

Price: Available upon request

Contact: Joseph M. Chelini, President
(406) 494-3174

MINE DATA COMPUTER SERVICE, INC.

Box 3033

Butte, MT 59702

File-it!™

Operating System: ULTRIX-11, UNIX* (Version 7)

Keywords: • Data base management • Forms management

File-it! allows a computer novice to maintain, modify, add, and retrieve vital information. File-it! provides quick access to phone lists, mailing lists, calendars, financial records, or other information that needs to be managed. File-it! provides the following features:

- Interactive data base creation and modification: The data is described to File-it! through an interactive format. After the field names, data types, and field lengths have been entered, File-it! builds the data base schema and creates a default form for data entry and inquiry.
- Context-sensitive help facilities: A help screen provides extensive reference information and instructions about the work in process.

570 Information Management

- Form modification: File-it! has options to speed data entry. A range of data validation and verification options, such as default values, prompts, and legal ranges, can be assigned to any input field.
- Data inquiry: File-it! displays only the information that is relevant to the user's request. Information can be selected on the basis of one or more specific values, a range of values, or a value that closely approximates the specified value.
- Data access and retrieval: File-it! uses the powerful C-ISAM™ access method for retrieving data base information.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$895 – \$3750

Contact: Sales Department
(415) 424-1300

RELATIONAL DATABASE SYSTEMS, INC.
2471 East Bayshore Road, Suite 600
Palo Alto, CA 94303

FINGRAPH

Operating System: CTS-300

Keywords: • Graphics

Memory required: 256K.

This powerful, innovative software, requiring 2855 disk blocks, expands the power of your applications by transmitting information graphically to help you make decisions and operate more efficiently. You set up charts once, and FINGRAPH automatically updates the information from your application, spreadsheet, or data base or updates data manually to supplement operational data. FINGRAPH charts use data consistent with tabular reports and display the data on your terminal, using the unique slide-show feature, or produce them quickly from your plotter or printer.

A version of this product is available for the VAX computer.

Price: \$995 – \$3000

Contact: Ronnie Jarett
(217) 793-0884

GRAPHIC M*I*S, INC.
960 Clock Tower, Suite G
Springfield, IL 62704

FMS-11/IAS, Version 1.0

Operating System: IAS

Keywords: • Data entry • Forms management
• Menu handlers • Query facilities

Distribution media: 9-track 800/1600 bpi magnetic tape, RL02.

This forms-oriented video I/O management system for the IAS operating system functions as an independent software front end that logically off-loads the complexities of interactive video I/O management from the application program. FMS-11/IAS can be used as a general-purpose manager of operator I/O or as a front end in traditional source data entry applications. Possible FMS-11/IAS applications range from data base inquiry/response/update to periodic displays of the status of a real-time process or accepting control information from the operator for the process.

Call statement, high-level language interfaces are provided for applications written in FORTRAN IV/IAS-RSX, FORTRAN-77/IAS, BASIC-PLUS-2 for IAS, and COBOL as well as in MACRO-11 assembly language. FMS-11/IAS is equally effective implementing applications with question-and-answer, menu, or fill-in-the-blank forms.

Forms defined using FMS-11/IAS can use the following features of DIGITAL's VT100 terminal: reverse video, bold, underlined, and blinking characters; 132-column lines; jump and smooth scrolling; and split and reverse screens.

FMS-11/IAS consists of the following software components:

- FED (Form Editor) — Used by the application developer to create and modify video forms by typing them on the screen as they are to appear to the application user
- FUT (Form Library Utility) — A multifunction utility program for manipulating files of FMS-11/IAS form descriptions
- FDV (Form Driver) — A reentrant subroutine called from application programs to control screen processing

Refer to SPD #12.32.04 when requesting further information on this product from your local DIGITAL sales office.

Price: \$1240 — \$3200

Contact: Consult your local DIGITAL sales office (see Introduction).

FMS-11/RSTS, Version 1.5

Operating System: RSTS

Keywords: • Data entry • Forms management
• Menu handlers • Query facilities

This forms-oriented video I/O management system for the RSTS/E operating system functions as an independent software front end that makes the complexities of interactive video I/O management transparent to the application program. FMS-11/RSTS can be used as a general-purpose manager of operator I/O or as a front end in traditional source data entry applications. FMS-11/RSTS is equally effective implementing applications with question-and-answer, menu, or

fill-in-the-blank forms. Possible FMS-11/RSTS applications range from data base inquiry/response/update to computer-aided instruction and government administrative applications.

Forms defined using FMS-11/RSTS can use the following features of DIGITAL's VT100 terminal: reverse video, bold, underlined, and blinking characters; 132-column lines; jump and smooth scrolling; and split and reverse screens.

FMS-11 components are as follows:

- FED (Form Editor) — Used by the application developer to create and modify video forms by typing them on the screen as they are to appear to the application user
- FUT (Form Library Utility) — A multifunction utility program for manipulating files of FMS-11/RSTS form descriptions
- FDV (Form Driver) — A reentrant subroutine called from application programs to control screen processing

Refer to SPD #13.17.04 when requesting further information on this product from your local DIGITAL sales office.

Price: \$1240 — \$3200

Contact: Consult your local DIGITAL sales office (see Introduction).

Fundraiser

Operating System: MIIS/MAGIC

Keywords: • Data base management • Mailing lists
• Word processing

This system uses visual display terminals and letter-quality printers to help automate the development office. The staff has complete control over the donor/prospect list and the processing of gifts. The system prints gift receipts and acknowledgment letters automatically, tracks restricted donations, and prints transmittal reports for the fiscal office.

Fundraiser helps run effective money-raising programs. By analyzing gift data, the system reports those appeals, phone-a-thons, or campaigns that have been most successful. The system provides online biographical data and unlimited processing capabilities. Fundraiser can be installed on a minicomputer or accessed through the Impact Systems computer center in Cambridge, Massachusetts.

A version of this product is available for the VAX computer.

Price: \$25,000

Contact: John S. Mills
(617) 863-8070

IMPACT SYSTEMS, INC.

83 Hartwell Avenue
Lexington, MA 02173

GBMS (General Business Management System)

Operating System: RT-11, TSX-PLUS

Keywords: • Accounting • Inventory • Order entry
• Purchasing

This software interactively manages order entry, inventory control, billing, purchasing, accounts receivable, accounts payable, payroll, general ledger, financial reporting, and word processing.

Price: \$6000 - \$12,000

Contact: Andy Cherry, Marketing
(201) 348-6688

EXTENDED TECHNOLOGIES CORP.

1023 Boulevard East

Weehawken, NJ 07087

GRS (Generalized Reporting System)

Operating System: RSTS

Keywords: • Report writer

GRS is an advanced report writer and query language that enables the user to prepare reports from virtually any data base, using an English-like language. GRS is compatible with the accounting and manufacturing systems from NCA, Transcomm, Interactive Management Systems, Amcor, Martin Marietta, and others.

Designed for nonprogrammers and programmers, GRS users need no specialized technical skills. Powerful data retrieval, analysis, and formatting capabilities allow users to prepare simple reports with one statement and to prepare complex reports involving multiple input files in a matter of minutes. GRS works with non-RMS files and data base systems.

A version of this product is available for the VAX computer.

Price: \$4800 - \$6500

Contact: Ruth L. Simon, Marketing Manager
(212) 972-1860

ENTERPRISE TECHNOLOGY CORP.

305 Madison Avenue

New York, NY 10165

Handle List

Operating System: ULTRIX-11, UNIX* (Version 7)

Keywords: • Data base management • Forms management
• Office systems • Telecommunications

Handle List permits user-defined data bases of information. Simple forms fill-in templates are used to streamline information into the data bases. Information can be selectively sorted and merged within letters, lists, and so on. List processing, telemarketing, and any type

of information management are quickly and easily generated with Handle List. As with all Handle products, Handle List is completely function key driven and fully integrated with other Handle products.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$240

Contact: Karan Kauppila
(916) 583-7283
HANDLE CORP.
P.O. Box 7018
Tahoe City, CA 95730

IMPRS

Operating System: RSTS, RSX, RT-11

Keywords: • Data base management • Language processors
• Programming tools • Query facilities

This relational data base software package allows both technical and nontechnical users to establish and maintain relational data base systems, interactively generate sophisticated reports, and write fourth-generation high-level programs to support application systems. IMPRS increases programming productivity through a complete data-manipulation language. IMPRS also supports several query language interface modules that allow nontechnical users to browse through the data base and quickly produce reports. IMPRS is fully documented and comes with a full complement of utility programs to support the data base and to provide additional flexibility to the user.

A version of this product is available for the VAX computer.

Price: \$1000 - \$20,000

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544

RUF CORP.
1533 E. Spruce
Olathe, KS 66061

INDENT (Initial Data Entry)

Operating System: RSX, RT-11

Keywords: • Data base management • Data entry
• Forms management

Distribution media: magnetic tape, RX02.

These FORTRAN programs facilitate the initial entry of data from original documents. Data fields are entered from a user-defined form, in the order of their occurrence. A record is produced with variables in any desired order to facilitate data processing. Fields common to

all records in a file produced during a session need be entered only once. Each variable field on the record may be independently right or left justified, and the remainder of the field is filled by a blank or character specified by the user.

INDENT runs in minimal space, allowing numerous data entry terminals to operate. For example, on a PDP-11 computer with 64K memory running RT-11, INDENT will run in the foreground while the keypad editor (KED) runs or FORTRAN program development takes place in the background. INDENT works best when large amounts of numeric data must be entered but the system editor requires the keypad for editing functions. INDENT frees the keypad for numeric input.

INDENT programs define output record format, allow format review prior to initiating a session, and accept and display data from the resulting files in their order of entry.

A version of this product is available for the VAX computer.

Price: \$600

Contact: Mark Troy

(808) 842-8641

INDENT

1290-d Maunakea Street, Suite 133

Honolulu, HI 96817

INFORMIX®

Operating System: ULTRIX-11, UNIX* (Version 7)

Keywords: • Data base management • Forms management
• Query facilities • Report writer

This system provides a set of comprehensive tools for application development and the utilities to create and maintain data bases. INFORMIX's capabilities include comprehensive menu creation, screen-oriented data entry, query by forms and powerful ad hoc queries, full-featured report writing, and a C language interface.

The Dbmenu menu-creation facility allows user customization of INFORMIX's menu-driven environment. Single- or multilevel menus can be created quickly and easily through interactive screens.

Informer, the powerful interactive query language, can be used to extract information in the most relevant fashion; create and store the results of arithmetic, logical, or aggregate operations; and perform global data management functions.

Ace is INFORMIX's nonprocedural report-writing language. With Ace, nontechnical personnel can extract, manipulate, format, and display data from one or more INFORMIX files.

Perform adds custom screen generation, data entry facilities, and query-by-forms capabilities to INFORMIX. A screen created with Perform can display and update fields from multiple data base files. Queries based on a specific value, a range of values, or a wildcard designation can be easily performed with a minimum of keystrokes.

ALL-II, the C language interface, consists of a library of C routines that perform the data base operations required by programmers. ALL-II routines can be incorporated into any C program through simple call statements that set up and perform queries.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$3000 - \$12,000

Contact: Sales Department
(415) 424-1300

RELATIONAL DATABASE SYSTEMS, INC.
2471 E. Bayshore Road, Suite 600
Palo Alto, CA 94303

INMAGIC®

Operating System: RSTS, RSX

Keywords: • Engineering • Law • Library science

Memory required: 64K for minicomputer; 256K for microcomputer.
Distribution medium: magnetic tape for the minicomputer.

This text retrieval and indexing system features a built-in Boolean query language and report generator. INMAGIC manages variable-length text and bibliographic records and operates on many minicomputers and micros for both single and multiple users. Prompts, help screens, and tutorials are available on line to assist the new user. A test version of the program is also available.

A version of this product is available for the VAX computer.

Price: \$11,500 - \$13,500

Contact: Inmagic Inc.
(617) 661-8124

INMAGIC INC.
238 Broadway
Cambridge, MA 02139

International Trade Software

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounting • Documentation • Transportation

ASA's International Trade applications are simple-to-use, on-line, fully integrated information systems. The software is designed to produce the necessary documentation for customhouse brokerage and freight-forwarding operations. Additional accounting programs handle billing, receivables, payables, payment verification, and general ledger reporting functions. The system can communicate for data transmission purposes with U.S. Customs, shippers, steamship lines, Telex, and more. Other capabilities include shipment tracing, liquidations, missing documents, landed cost, warehousing, ocean and air brokerage, air freight forwarding, and TSUSA maintenance.

A version of this product is available for the VAX computer.

Price: \$20,000 - \$400,000

Contact: Richard Bowe
(603) 898-7000

ASA INTERNATIONAL TRADE SERVICES
10 Manor Parkway
Salem, NH 03079

INVSIM (Inventory Simulation)

Operating System: RSTS

Keywords: • Inventory • Simulation

Memory required: 8K.

INVSIM simulates inventory systems in a time-sharing environment. The program's options include heuristic rules for guiding the selection of decision variables; simulation of TZ, SQ, and SZ inventory policies; and the ability to find the sensitivity of costs and availability to unit costs, lead time, demands, randomness, and various decisions. DECUS number 11-182.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Job Cost Accounting

Operating System: RSX

Keywords: • Cost accounting • Payroll • Project management
• Report writer

This module tracks costs, open purchase orders, accounts receivable, work in process, and client payments and is designed for professional services firms, government contractors, and manufacturers who need to track job costs. A detailed report with a line item for each charge, job summary, labor allocation and productivity, daily hours (certified payroll), and customer-designed reports is provided.

Job Cost Accounting features up to 1000 subdivisions for each job to report costs by department, job phase, and so on; multiple methods for computing overhead and for determining billing rates; a variety of report versions, with multiple selection criteria for determining report contents; table-driven report formats that can, in many cases, be changed with no reprogramming; and a multiple hierarchy for subtotals.

Job Cost Accounting is available separately or as a part of an integrated package with payroll, accounts receivable, accounts payable, purchase order, and general ledger. Custom tailoring is available. Complete maintenance and support are available under contract. On-site installation and training, a bill of materials processor, and inventory control are optional.

A version of this product is available for the VAX computer.

Price: \$8000 +

Contact: Janna McMillan

(617) 275-5810

BREUER & CO.

54 Middlesex Turnpike

Bedford, MA 01730

KDSS (Key-to-Disk Data Entry System)

Operating System: RSTS, RSX

Keywords: • Data entry • Office systems

Distribution medium: 9-track 800/1600 bpi magnetic tape.

This system permits a portion of PDP-11 or VAX resources to be used as a data entry system with capabilities comparable to those of the most advanced stand-alone multiterminal key-to-disk data entry systems. KDSS can run concurrently with other applications on the system and thus may interest present or prospective RSTS/E, RSX-11M, or VMS users who have such key-to-disk data entry requirements in addition to the other applications that they wish to run. KDSS data entry and verification take place under control of formats, written in a high-level declarative language, specifying screen layout, cursor positioning, field edits (an extensive set of intrafield, interfield, and interrecord edit capabilities is available), balancing and totaling, dup and autoincrement fields, and so on. KDSS also has output reformatting facilities, as well as facilities for permitting a supervisor to monitor the data entry process through batch status and operator status displays. The performance-critical portions of KDSS are implemented in assembly language as shared code.

A version of this product is available for the VAX computer.

Price: \$9000

Contact: Martha Scott
(617) 861-0670

EVANS GRIFFITHS & HART, INC.
55 Waltham Street
Lexington, MA 02173

KEYWORD Information Manager

Operating System: RSX

Keywords: • Data base management • Data dictionary
• Personnel • Report writer

This package for commonly needed information storage and retrieval functions is oriented toward groups of information that can be accessed in various ways. KEYWORD can be used in prospect management to maintain detailed information on customers and prospects and to retrieve data on only some prospects. KEYWORD can keep a variety of information on each of a number of current projects, along with historical data for past projects, and can also maintain comprehensive personnel records.

Each KEYWORD information group can have numeric, alphabetic, and other data fields, which may be defined and changed by the user. The user may use up to 1800 characters to describe each group, along with a file text for each group of unlimited size. In addition, each information group may have several groups of up to 100 user-defined keywords, each of which can be used to access the group, and up to several hundred numeric fields that can be used to access the group.

Reports, like the data base, can be tailored to your needs. You get only the information that you want, in the format that you want.

A version of this product is available for the VAX computer.

Price: \$4000 +

Contact: Janna McMillan
(617) 275-5810

BREUER & CO.
54 Middlesex Turnpike
Bedford, MA 01730

LEDGR

Operating System: RT-11

Keywords: • Data base management • Inventory
• Query facilities • Warehousing

This collection of four programs, written in FORTRAN and MACRO, is used for creating, maintaining, and using a data base management system that will operate under RT-11 V4 (SJ or FB) on a minimal system consisting of at least a PDP-11/03 with RX01 (H-11 and

H-27), optional printer, and terminal with direct cursor-positioning ability (H-19, VT52, VT100, and so on). Reverse video is recommended but not necessary for operation. Versions are available for use with and without the EIS/FIS chip. Versions are available for operation under HT-11 (Heath H-11 system), as well as being customized for other terminals. Any number of LEDGR files may be created and operated on.

The records may contain 20 fields (given unique 8-character names), in which the data may be a character (a maximum of 80), an integer (a maximum of 8 decimal digits), or a fixed-point number (a maximum of 9 characters). The data record length (sum of data fields + 8) can be no greater than 512 bytes. The maximum number of data records in a LEDGR file is 999.

All programs are menu driven, with explanations and information provided within each option. The data entered and the required instructions to LEDGR are extensively error checked at entry time. After the first data record has been entered, data for the current field may be taken from the same field as the previously entered record.

All statistics describing the structure of the data base and its data fields can be displayed on either the terminal or the printer.

Records can be searched for specified contents of specified fields: if alphanumeric, for containing the provided search string; if numeric, being $<$, $=$, or $>$ the provided value. Up to four conditions can be "AND"ed, "IOR"ed, or "XOR"ed. After being located, the record can have the data in any field modified, deleted, or printed. Data fields may be printed or displayed for all or only selected records, based on the supplied criteria.

A utility program allows file characteristics to be altered after creation. The data file may be sorted on as many as six keys, using the specified fields, in ascending or descending order.

Report analysis allows performing the arithmetic operations of sum, average, and median for either all numeric fields over all records or for only specified fields over selected records. Additionally, data from all records may be printed, transferred to a new LEDGR file, or displayed with only specified fields in any specified order. Optional features include form letter and mailing label generation. A demonstration package is also available on RX01 for \$25.

Price: \$200 - \$250

Contact: Donald D. Miller
(816) 747-6824

GEMSTONE COMPUTER SERVICE
303 West Gay
Warrensburg, MO 64093

Leverage

Operating System: UNIX* (System III, System V, Version 7),
VENIX

Keywords: • Data base management • Data entry
• Menu handlers • Text management

This general-purpose, inexpensive data base system gives users easy access to advanced UNIX* capabilities and is useful on any UNIX* machine. Leverage provides full-screen data entry and retrieval, record selection, and mail-merge capabilities and serves as a menu-driven front end to standard UNIX* utilities. Leverage is well suited for use in mailing-list and document-production applications, particularly in the publishing and legal markets.

Leverage stores its data in standard UNIX* text files with variable-length fields and records, thus providing sophisticated report generation using the UNIX* awk, sort, tbl, and troff programs. Leverage deals with one data file at a time, so it lacks the relational or hierarchical structures of true data base management systems. In applications not requiring a full DBMS, Leverage is often the most effective solution.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$385

Contact: John Roseman

(212) 349-3355

URBAN SOFTWARE CORP.

93 Nassau Street

New York, NY 10038

MAPS/DB

Operating System: RSTS

Keywords: • Data base management • Decision support
• File management • Management

MAPS/DB provides fully integrated data management and retrieval capabilities, based on a relational data design that allows users to manipulate, store, and link data as desired. A user can create a data base with interactive update and maintenance procedures. Other features allow interactive inquiry and ad hoc report generation to provide access to the data. All the features use English-language commands that allow non-data processing managers to create their own systems.

A version of this product is available for the VAX computer.

Price: \$12,000 - \$25,000

Contact: Kevin Walsh
(415) 856-1100

ROSS SYSTEMS, INC.
1860 Embarcadero Road
Palo Alto, CA 94303

MDBS III — DDL/DMS: Full RTL Form

Operating System: UNIX* (Version 7)

Keywords: • Data base management • Language enhancers
• Microprocessor development • Networking

This extended-network DBMS for minis and micros allows simultaneous multiuser access. Data Description Language (DDL) allows the developer to specify the structure and contents of the data base. In addition to supporting hierarchical, relational, and CODASYL-network structures, this software uses a sophisticated extended-network design that eliminates data redundancy and allows simple descriptions of complex data relationships. The data management system (DMS) executes the data manipulation language (DML) specified by the application developer. Extensive automatic recovery and transaction-logging (RTL) mechanisms prevent data loss from media/power failures. A buffer-flushing facility substantially reduces the chance of data loss from abnormal interruptions. Rollback and selective recovery are supported through page-image posting and transaction logging. An interactive version of the DML (IDML) is available. A nonprocedural English-like query language interface (QRS) permits ad hoc report generation from an MDBS III data base.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: MDBS III Marketing Representative
(312) 981-9200 or (800) 323-3629

MICRO DATA BASE SYSTEMS, INC.
Application Development Products
85 W. Algonquin Road, Suite 400
Arlington Heights, IL 60005

MEMSYS (DWC Membership Management System)

Operating System: RSTS, RSX

Keywords: • Data base management

MEMSYS is designed to provide association executives and staff with accurate and timely information. MEMSYS helps associations keep track of members, legislators, executives, outside contacts, and convention attendees. The system keeps an easily retrievable record and history of transactions with each member. This system also functions

as an accounts receivable and billing system, handles mass mailings, keeps track of voting records, and generates reports and newsletters. MEMSYS is written for the PDP series in BASIC-PLUS-2 and for the VAX series in VAX BASIC.

A version of this product is available for the VAX computer.

Price: \$5000 - \$10,000

Contact: David Nisbet
(606) 253-3183

DWC COMPUTER SOLUTIONS, INC.
1642 N. Broadway
Lexington, KY 40505

Microlink

Operating System: CTS-300, RT-11

Keywords: • Data base management

Distribution media: magnetic tape, RL02.

Microlink is a computer-aided microfilm retrieval system that maintains the data base of images complete with roll and frame number. Multikey access is provided. An automatic link to microfilm reader/printers is featured.

A version of this product is available for the VAX computer.

Price: \$4000 - \$8000

Contact: David L. Ley
(313) 855-6181

RADLEY BUSINESS COMPUTERS
7071 Orchard Lake Road, Suite 305
W. Bloomfield, MI 48033

Micro/RSX DATATRIEVE-11, Version 1.0

Operating System: Micro/RSX

Keywords: • Data base management • Data dictionary
• Query facilities • Report writer

Distribution medium: RX50.

This interactive query, report, and data maintenance system for the less sophisticated computer user uses the RMS-11 record management services to access data in disk files of sequential, indexed, or relative organization. Micro/RSX DATATRIEVE-11 provides facilities for selective data retrieval, sorting, formatting, updating, and report generation without the need for programming.

Record and domain (file) definitions entered in Micro/RSX DATATRIEVE-11 are stored in data dictionaries shared by Micro/RSX DATATRIEVE-11 users. Data dictionaries can also be used to store frequently used sequences of commands to be recalled and processed

later. Commands are provided to list the contents of the data dictionary, to delete entries, and to control access to individual entries in the data dictionary.

Micro/RXS DATATRIEVE-11 provides the Application Design Tool (ADT) to assist the novice user in creating domain and record definitions. The ADT uses an interactive dialog technique to guide the user through the data definition process and creates an indirect command file that updates the Micro/RXS DATATRIEVE-11 data dictionary.

The Micro/RXS DATATRIEVE-11 report writer provides easy-to-use commands to control report name, date, and page numbering and width and length; detail line specifications; and multiple report sections and control break specification with automatic totaling at any level.

Micro/RXS DATATRIEVE-11 uses a set of English-like commands for data retrieval, modification, and display. Prompting is automatic for both command and data entry. In addition to the simple data-manipulation commands, more complex commands, such as REPEAT, BEGIN-END, and IF-THEN-ELSE, are available for the advanced user.

Refer to SPD #18.15.00 when requesting further information on this product from your local DIGITAL sales office.

Price: \$1200

Contact: Consult your local DIGITAL sales office (see Introduction).

Milldata

Operating System: RSTS, RSX, RT-11

Keywords: • Data base management • Data collection
• Forms management • Report writer

Milldata not only provides a complete data base system but also offers a programming facility or program interface so that information stored in other data bases on other systems can be introduced into your Milldata data base. This relational data base management system allows you to define the structure and content of your data base records; create your own "form" layouts on a VDU screen ("forms" are used by the operator to talk to the data base); use those forms to enter data, retrieve records, and ask for selected information; and generate reports using your own predefined layouts.

A version of this product is available for the VAX computer.

Price: £3500 – £8000

Contact: G. Norman
734-342666

D. M. ENGLAND & PARTNERS LTD.
Tudor House, 24 High Street
Twyford, Berkshire RG10 DAG
England

MIMER

Operating System: RSX, UNIX* (System III)

Keywords: • Data base management • Development tools
• Programming tools • Query facilities

Distribution media: magnetic tape, exchangeable disk.

MIMER is a full-function fourth-generation system with a multiuser relational data base that runs on most mainframes and minicomputers. MIMER includes a fast query language, a screen handler, a fourth-generation report and program generator (with its own prototyping language), and an information-retrieval system. MIMER is easy to understand and use and can be linked to statistical analysis, graphics, viewdata, CAD/CAM packages, and programs written in conventional languages.

MIMER is a general-purpose application development system used in industrial, commercial, or governmental organizations. Size is unlimited; applications with data bases up to 1500 megabytes have been implemented with MIMER. Performance tuning enables MIMER to outperform many other file-handling and data base systems in fast data retrieval from the data base.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: £4000 – £35,000

Contact: Mel Gosling
44-(524) 734505

SAVANT ENTERPRISES

2 New Street

Carnforth, Lancashire LA5 9BX

United Kingdom

MinCAR (Minolta Computer-Assisted Retrieval)

Operating System: RSTS

Keywords: • Data entry • Documentation • File management
• Query facilities

Distribution media: magnetic tape, RL02.

MinCAR, a fully conversational screen-formatted data entry and computer-assisted retrieval system, indexes and automatically retrieves microfilm. A powerful search logic and data entry subsystem indexes documents into the computer through an optional camera interface or through microfilm reader/printers. Through a simple fill-in-the-blanks screen, retrieval can be entirely automated, depending on the microfilm equipment used.

Retention schedules and management reports, including SEARCH statistics, are integral parts of the system. The software reduces keystrokes, provides powerful editing to ensure accuracy, and can interface directly with DIGITAL's ALL-IN-1 Office Automation Package. No keying CAR is possible with this interface module. Existing files can be output to microfilm and retrieved automatically under software control.

The system connects to most Minolta reader/printers through our MARS Controller, including our RP 505 plain paper reader/printer, and to our Micro Auto 16 Planetary Camera.

A version of this product is available for the VAX computer.

Price: \$10,000 - \$25,000

Contact: Karen Voigt

(201) 934-9400

MINOLTA CORP.

200 Williams Drive

Ramsey, NJ 07446

Miracle Viewdata

Operating System: RSTS, RSX, RT-11

Keywords: • Communications • Data collection
• Query facilities • Text management

This complete private information Viewdata system for business users contains a set of program packages that provides a user inquiry system with standard Prestel features, ease-of-use enhancements, and Gateway facilities for data collection, interactive applications, and access to other software systems. Miracle Viewdata provides communications software for exchanging information with Prestel and a sophisticated editor for the creation and maintenance of Viewdata frames.

Other facilities include data collection frames and user statistics.

A version of this product is available for the VAX computer.

Price: £2500 – £20,000

Contact: D. M. England
734-342666

D. M. ENGLAND & PARTNERS LTD.
Tudor House, 24 High Street
Twyford, Berkshire RG10 DAG
England

Mistress "Plus"

Operating System: EUNICE, UNITY, UNIX* (System III, System V, Version 7)

Keywords: • Data base management • Programming tools
• Query facilities • Report writer

Mistress "Plus" offers all the power of the Mistress Relational Database Management System, along with the flexibility and convenience of M-Writer, the report generator with complete output flexibility, and M-Vision, the full-screen interface that allows data manipulation through single-key operation. With Mistress "Plus," the end user and the DP professional are both guaranteed increased productivity through the use of a matched system.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Barbara Sinclair
(416) 922-1743

RHODNIUS INC.
10 St. Mary Street, Suite 602
Toronto, Ontario M4Y 1P9
Canada

Mistress Relational Database Management System

Operating System: EUNICE, UNITY, UNIX* (System III, System V, Version 7)

Keywords: • Data base management • Graphics
• Query facilities • Text management

Mistress, the fully relational data base management system for UNIX*, features the Structured Query Language for the end user as well as standard programming interfaces to the C language for the DP professional. Advanced concepts include variable-length character fields, dynamic storage allocation, and B+ tree indexing. Mistress has been designed exclusively for the UNIX* environment and is written in C.

Using SQL commands, the user can create or drop tables and indexes, display data bases or tables, and select, delete, update, insert, and sort data in tables. Mistress classifies information, using a variety of data types, including date, character, dollar, integer, float, and text (variable-length character). Mistress provides easy-to-use commands, on-line help, meaningful error messages, and a built-in editor. The system asks for data interactively, prompting for each field value and checking for input errors.

Mistress has three interfaces to the C programming language, an interface to the UNIX* shell, and optional interfaces to other high-level languages. Multiple concurrent users are supported with complete data integrity. Mistress dynamically maintains B+ tree indexes to ensure faster record retrieval. Efficient bulk loading and unloading of data from standard files provide compatibility with large mainframe installations.

Mistress's innovations provide the superior software solution for data base, information systems, office automation, local networking, color graphics, and CAD/CAM applications.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$850 - \$20,000

Contact: Barbara Sinclair
(416) 922-1743

RHODNIUS INC.
10 St. Mary Street, Suite 602
Toronto, Ontario M4Y 1P9
Canada

Mistress/32

Operating System: EUNICE, UNITY, UNIX* (System III, System V)

Keywords: • Data base management • Forms management
• Programming tools • Report writer

Mistress/32, the advanced relational data base management system for extended addressing UNIX* products, features enhanced capabilities for security, recovery, and data integrity, as well as a fully integrated report writer and screen interface. The Mistress/32 product has a dynamic application generation tool, M-Builder, a full-screen, interactive editor designed to create screens for M-Vision. The editor allows users to create and to easily make major modifications to M-Vision screens by drawing on the terminal display, thereby eliminating the need to experiment with row and column numbers. Attractive displays can be made using line graphics and terminal video features such as reverse video, highlighting, and

underlining. M-Builder screens created on one terminal can be reproduced on other terminal types, since M-Builder uses the "term-cap" data base of terminal capabilities.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Barbara Sinclair
(416) 922-1743

RHODNIUS INC.

10 St. Mary Street, Suite 602
Toronto, Ontario M4Y 1P9
Canada

ORACLE® Relational Data Base Management System

Operating System: IAS, RSTS, RSX, UNIX* (Version 7)

Keywords: • Data base management • Data dictionary
• Data entry • Report writer

ORACLE, available for mainframes, minis, and microcomputers, is currently installed at more than 350 sites worldwide. The system is implemented for a wide variety of DBMS applications, including medical research, government, education, financial management and accounting, project management and control in manufacturing, and engineering research and development.

ORACLE is designed for networking and distributed data base capability and is highly portable (source language is C) across computer systems. Features include the SQL PLUS nonprocedural data language, a fully integrated data dictionary, an interactive screen facility, a report writer, and other application development tools for all levels of users, as well as transaction journal and data base maintenance utilities.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$600 - \$96,000

Contact: Robin Tygh
(415) 854-7350

ORACLE CORP.

2710 Sand Hill Road
Menlo Park, CA 94025

Pack

Operating System: RSTS, RSX, RT-11

Keywords: • Decision support • Forecasting • Sales analysis
• Statistics

Distribution medium: 9-track 1600 bpi magnetic tape.

This comprehensive statistical system, written in FORTRAN IV and based on single-equation Box-Jenkins theory, builds models from time-series data. The model is estimated, tests for sufficiency and necessity are examined, and then the model is used to forecast. During the estimation process, the data is reduced to noise. This noise, along with the standard errors of the estimated parameters, is used to provide forecast uncertainty.

The system allows the user to optionally perform univariate or multiple-input analysis either interactively or through a batch run for the following:

- Univariate time-series model identification, estimation, diagnostic checking, and forecasting
- Single-input transfer function model identification, estimation, diagnostic checking, and forecasting
- Multiple-input transfer-function model identification, estimation, diagnostic checking, and forecasting
- Intervention model estimation, diagnostic checking, and forecasting

Routines, such as preliminary estimates, univariate conversion, transfer function conversion, aggregated forecast variance, improved transfer function identification, the preprocessor, and the automatic univariate identification are available at modest rates to enhance the system.

A version of this product is available for the VAX computer.

Price: \$200 - \$2400

Contact: D. P. Reilly
(215) 675-0652

AUTOMATIC FORECASTING SYSTEMS, INC.
P.O. Box 563
Hatboro, PA 19040

Pioneer COMMAND System for Financial Management, Distribution, and Manufacturing

Operating System: RSTS

Keywords: • Data base management • Distribution
• Financial management • Manufacturing

The COMMAND System, developed by Pioneer Software International, is interactive, on line, user friendly, and totally integrated. This system is written in BASIC-PLUS-2 and requires a minimum of 64K words. Because the system is based on Userware International's USER-11 Database Management System, extensive on-line inquiry and ad hoc reporting are available.

The COMMAND System consists of Sales Order Processing, Accounts Receivable, Purchase Order Processing, Accounts Payable, General Ledger, Inventory Management, Bill of Materials Processor, Material Requirements Planning (MRP), and Production Control, which consists of Work Order Processing, Routing, and Work Center Loading. The COMMAND modules are designed and function as integrated software but may be purchased and installed separately in almost any sequence. Because the system is based on USER-11, each module may be tailored to meet user requirements.

A version of this product is available for the VAX computer.

Price: \$3000 - \$12,000

Contact: Jered Cady, Vice President, Sales and Marketing
(619) 745-6006

USERWARE INTERNATIONAL
2235 Meyers Avenue
Escondido, CA 92025

POISE DMS-Plus

Operating System: RSTS

Keywords: • Data base management • File management

This system allows nontechnical users to generate complete software applications and allows programmers to implement sophisticated systems without writing code. DMS-Plus is a flexible set of programs that can be used to solve many information management problems. DMS-Plus provides complete file maintenance programs, including file creation and definition, file-to-file data handling (which eliminates the need for redundant entry), on-line inquiry capabilities, user-defined screen formatting, a powerful information retrieval system (with sort and selection of any field or combination of fields), a multipurpose label program, and a versatile report generator. List processing and text editing are included at no additional charge. Data elements can be added or modified without recompiling programs. DMS-Plus allows simultaneous multiuser access and provides terminal independence through optional screen or line mode.

The POISE Company also offers a complete line of administrative applications for educational institutions. All POISE systems use the data management concept, and all feature interactive data entry and on-line inquiry with update. The POISE approach avoids the drawbacks and complexities of traditional data base management systems by providing greater flexibility, speed and simplicity in implementing changes, and ease of use by nontechnical personnel.

A version of this product is available for the VAX computer.

Price: \$14,000 - \$17,500

Contact: Eva Kinnard
(505) 623-8554

THE POISE COMPANY, INC.
201 North Nevada
Roswell, NM 88201

PORTACALC: A 3-D Spreadsheet/Data Base Program

Operating System: IAS, RSTS, RSX

Keywords: • Calculation aids • Data base management
• Spreadsheets

This powerful 3-dimensional spreadsheet/data base and analysis system runs on PDP-11 systems that support the F4P compiler or on VAX systems needing the VAX FORTRAN compiler to compile. The program is designed for portability to other FORTRAN systems. The PORTACALC manual is designed to be turned into a system help file so that the manual can be read on line. Tutorials are supplied as well.

A data management system interface is built in, permitting spreadsheets to access a potentially unlimited number of files and records or parts of records in those files for user-defined functions, numbers, formulas, and text. Merging of multiple sheets, matrix algebra, general function solving, and easy document load/unload make this spreadsheet more powerful and easier to customize than all but the most elaborate mainframe packages. DECUS number 11-SP-47.

Note: Improvements are a smaller, faster, screen display; a new, improved version for the PDP-11, with full VAX version ability; new functionality in programming; and a fully dimensional spreadsheet for matrix math. The VAX version now permits DCL commands to be spawned, the data base-access facility from each cell has been debugged and improved, and numerous additions and bug fixes make those versions more capable.

A version of this product is available for the VAX computer.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

PORTACALC XL: Floppy Version

Operating System: IAS, RSX

Keywords: • Calculation aids • Mapping • Spreadsheets

Memory required: 70KW.

This variant of the standard PORTACALC package for memory-mapping PDP-11s differs from the standard VAX or PDP-11 version. PORTACALC keeps data in a virtual array, so that the package can handle larger spreadsheets on a PDP-11 with no special functions

beyond memory-mapping support. PORTACALC supports a 60 x 64 sheet, but the size can be modified by changing the SVKLUGPRMTN file's PARAMETER statements, which define physical sheet sizes.

Only VT100 support is provided, although other terminals can be added by using the standard version's routines. A modified copy of UVT52TN is provided to give VT52 support and may be used in place of UVT100TN. DECUS number 11-SP-56.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

QUILL, Version 2.0

Operating System: CTS-300

Keywords: • Data base management • Data dictionary
• Report writer • Text management

Distribution media: RK07, RL01, RL02, RX02.

This system creates impromptu reports and terminal queries from existing data files. Through the use of English-like commands, a novice user can design the desired output without the need for programming.

QUILL has an additional output command that creates a list document (file) for the word processing application DECType-300. By issuing commands similar to making a query, QUILL creates the list document on disk, which can be accessed by DECType's list processing facility or editor.

QUILL uses dictionaries to describe data files. Logical field names assigned to each field are used with QUILL's commands to extract the desired data. QUILL's dictionaries support CTS-300 fixed-length, sequential, and ISAM file structures.

Refer to SPD #12.55.04 when requesting further information on this product from your local DIGITAL sales office.

Price: Available upon request

Contact: Consult your local DIGITAL sales office (see Introduction).

RABBIT-1 (Resource Accounting, Auditing, and Billing System)

Operating System: RSTS, RSX

Keywords: • Accounts receivable • Billing • Report writer
• Service industries

RABBIT-1 audits, accounts for, and allocates computer usage to individuals, groups, projects, or customers. Those users can be real accounts receivables, like a service bureau. Or, RABBIT-1 can be used to budget in-house system resource consumption.

RABBIT-1 keeps such up-to-date session data details as date, log-on time, connect time, and CPU. That audit trail gives accountants and auditors detailed invoicing backup and system security. Furthermore, RABBIT-1 calculates such charges as tape storage, equipment rental, manuals, communication costs, printer forms, and programming services. That added chargeback capability makes organizing and accessing data usage easier and quicker.

RABBIT-1's powerful report generator provides summaries, subtotals, recaps, and cross-footing for complete control of usage data. User, account, and recap reports help communicate to customers or users very effectively. The summary report prints out as either an invoice or a statement. RABBIT-1 users may design that report and others as required. The tabular-type detail report optionally lists each charge according to how much information is to be shown. The recap report is used to summarize information across accounts.

Those reports and many others help present technical data in terms that nontechnical persons can understand. All reports can be modified without reprogramming. Other RABBIT-1 reports include project accounting, disk file usage, communication analysis, tape storage rental, program usage/surcharge, production throughput, budget to date, printer usage, and end of session.

Menu-driven set-up procedures make installation quick and easy. Automatic prompting and HELP commands make RABBIT-1 easy to set up, maintain, and modify. Along with free remote installation, RAXCO provides free enhancements, technical support, and training.

A version of this product is available for the VAX computer.

Price: \$1995 - \$5995

Contact: Joseph Musler
(301) 258-2620

RAXCO, INC.
1370 Piccard Drive
Rockville, MD 20850

RABBIT-2

Operating System: RSTS, RSX

Keywords: • Graphics • Operations • Report writer
• Service industries

RABBIT-2 is a performance analysis and capacity planning tool. Bar charts and graphic displays show how much you use system components and peripherals. Charts show your system performance hour by hour, user by user, or program by program. Sketches show a profile of your average system day, your average user demands, and your average program resource requirements, even projections of your future computer needs.

System programmers, operations managers, and DP management all benefit from RABBIT-2 data. The system's output is directed to a user's terminal, printer, or plotter, where resource usage appears in graph and bar chart form. That resource-usage information is gathered by using interactive English-like commands. RABBIT-2 accepts more than 100 command functions.

You can get RABBIT-2 for image or program analysis. You choose the time interval (seconds, minutes, hours, days) and time period. For example, you can analyze resources such as CPU, BIO, DIO, PWS, FAU, QIO, PAGES, and ELAPSED time. Then, after modification, you can review a program for efficiency percentages. Thus, you can see the true needs of a program and can pinpoint your capacity needs.

You can use RABBIT-2 monitor data as input to get systemwide demand graphs, plus user or program demand requirements. RABBIT-2 even gives you minute-by-minute time-frame graphs, monitor snapshots that detail each use of the system. RABBIT-2 takes that material and converts cumulative resource usage values to intervals specified to get true time-interval reporting. RABBIT-2 can help you determine relative response time under various circumstances. The system reports the reality rather than the subjective user impression, which is important to the successful use of your system.

RABBIT-2 generates three basic categories of report: time interval, rank, and profile. The time-interval report is a horizontal or vertical bar chart of resource usage. The rank report lists resource consumption by user or program in decreasing statistical order and also ranks usage by ratio, such as CPU for each connect hour. The profile report lists all entity names in the active data set, sums up all statistics, and shows the percentage breakdown for each statistic by process type.

A version of this product is available for the VAX computer.

Price: \$1995 - \$4995

Contact: Joseph Musler

(301) 258-2620

RAXCO, INC.

1370 Piccard Drive

Rockville, MD 20850

RDM, Version 3.1

Operating System: RSTS, RSX, RT-11

Keywords: • Data base management • Development tools
• Forms management • Report writer

Distribution media: 800/1600 bpi magnetic tape, RX01, RX02.

This general-purpose data base software allows users to design and use their own applications. Menu structured and table driven, RDM allows even nonprogrammers to develop complete applications.

Data files may be generated and modified with the RDM data dictionary editor. The RDM forms program allows quick definition of unique screens for data input, review, or edit. RDM's powerful report writers allow simple or sophisticated reports to be designed with total control of both format and logic. A process generator allows users to design processes that calculate, assign, and move data among as many as four files. Simplified logic control permits the user to implement most common processing routines without writing complex code. On-line help and file-maintenance utilities are included.

A version of this product is available for the VAX computer.

Price: \$2495 - \$4795

Contact: Tom Madison

(503) 644-0111

INTERACTIVE TECHNOLOGY, INC.

1225 N.W. Murray Road, Suite 108

Portland, OR 97229

Reliant

Operating System: ULTRIX-11

Keywords: • Data base management • Data dictionary
• Data entry • Report writer

The Reliant information management system provides a mechanism for organizing and processing data from any application and builds a custom computer software system for your particular needs. The system consists of:

- The data definition system, which allows you to quickly define the information you want to enter into the computer
- The general data entry layer, which uses your definitions to prompt you in error-free data entry, revision, and deletion
- The report generator, which allows you to quickly specify what subsets of your information you want to retrieve and in a user-defined format

You can change either data or report definitions at any time, and you never need to learn a computer language to use the system.

A version of this product is available for the VAX computer.

Price: \$1200

Contact: Dr. Blaine Garfalo, President

(216) 421-8737

DAYSTROM SYSTEMS, INC.

11206 Euclid Avenue

Cleveland, OH 44106

Resource Accounting Module

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Billing • File management • Operations
• Property management

This module tracks computer resources on the VAX/VMS operating system by using the ACCOUNTING.DAT data file. The module also uses the DISKQUOTA facility to record the daily disk use for each UIC. The major components are customer master file management, a UIC master file, price schedules, holiday routines, and a report writer.

A version of this product is available for the VAX computer.

Price: \$3000 - \$6000

Contact: Robert G. Jackson
(919) 766-0571

RESOURCE SYSTEMS CORP.
4000 Clemmons Avenue, P.O. Box 1546
Clemmons, NC 27012

RETCON

Operating System: RT-11

Keywords: • Data conversion • Graphics

Memory required: 10KB.

This program displays the contents of the Reticon RSB6320 interface board when connected to an LC-series line scan camera. The pixel numbers where the transitions have occurred (address) or the number of pixels between transitions (count) can be displayed on a continuous or a periodic basis. The user can specify the number of scans that are averaged together prior to display. DECUS number 11-658.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

RTFIL

Operating System: RSTS, RSX, RT-11, TSX-PLUS

Keywords: • Data base management • Data dictionary
• Forms management • Query facilities

RTFIL is an interactive relational data base management system combined with a nonprocedural application generator for PDP-11 and LSI-11 users. Interactive utilities are data base definition/data dictionary; relational algebra; CRT screen/form generation; transaction processing; sort, select, and calculate specification generation; report generation and query language; list processing; and FORTRAN, Pascal, and MACRO-11 program language interfaces.

Price: \$750 - \$8000

Contact: Judith C. Mangels
(301) 654-9120

CONTEL INFORMATION SYSTEMS
4330 East-West Highway, Suite 200
Bethesda, MD 20814

SATURN-BASE™

Operating System: Micro/RXS, RSTS, RSX, RT-11, TSX-PLUS

Keywords: • Accounting • Data base management
• Development tools • Query facilities

This comprehensive million-record DBMS, used by applications developers and end users to create custom-designed systems, is equipped with accounts receivable, depreciation, inventory applications, and an integrated library of development tools, including a powerful report-generator language. SATURN-BASE interfaces with existing SATURN® products and user-developed systems.

A version of this product is available for the VAX computer.

Price: \$1500 - \$4000

Contact: Becky H. Tighe, Public Relations
(612) 944-2452 or (800) 328-6145

SATURN SYSTEMS, INC.
6875 Washington Avenue S., Suite 218
Minneapolis, MN 55435

SATURN-CALC™

Operating System: CTS-300, Micro/RXS, RSTS, RSX, RT-11, TSX-PLUS

Keywords: • Calculation aids • Decision support
• Financial analysis • Spreadsheets

This electronic spreadsheet package provides an easy and clear way to gather and present data. SATURN-CALC can be used in corporate, scholastic, and scientific applications, such as inventory control, comparing conditions, sales analysis, and magnifying data. System messages, letter-keyed commands, and on-screen help support the user at every step.

SATURN-CALC accepts text and numbers. Thus, files from SATURN-WP can be loaded into SATURN-CALC for processing. SATURN-CALC also interfaces to SATURN-GGRAPH for charts.

A version of this product is available for the VAX computer.

Price: \$489 - \$1956

Contact: Becky H. Tighe, Public Relations
(612) 944-2452 or (800) 328-6145

SATURN SYSTEMS, INC.
6875 Washington Avenue S., Suite 218
Minneapolis, MN 55435

Screenshare-11 (Terminal Monitoring and Sharing Utility)

Operating System: RSX

Keywords: • Operations • Security

Screenshare-11 is a quick and easy way to view activity at any terminal in your system. The package mirrors the input and output of a user's terminal right at your terminal, letting you see what is on any user's screen.

A simple command lets you be a silent observer or an active participant at any work session or demonstration.

Screenshare is invaluable for user assistance, demonstrations, supervision, monitoring, or session logging.

Price: \$1250

Contact: Ross Amann, Vice President
(212) 695-5001

RGTI SYSTEMS SOFTWARE
One Penn Plaza
New York, NY 10001

SEED Data Base Management System

Operating System: RSX

Keywords: • Data base management • Data dictionary
• Decision support

This advanced, comprehensive dictionary-driven data base management system is easy and efficient to use. The SEED elements provide straightforward relational concepts and practical, efficient CODASYL methods.

The SEED Data Base Management System consists of two packages:

1. SEED Application Development

- SEED KERNEL consists of CODASYL-compliant data description and data manipulation languages, plus utilities to help measure and improve performance. The SEED KERNEL improves data base performance, providing several methods for storing information and for representing the relationships among records. Thus, you can select the most efficient physical design for your applications environment and tune that design for optimal performance.

KERNEL can reduce costs by reducing input/output requirements. Because KERNEL provides hashing access and unlimited levels of hierarchy, you can enter the data base at the record occurrence (calc method) you want. Another method (via) permits clustering those records — on the same storage page, if possible — to minimize access costs. With KERNEL, you can specify the location mode for each record type in your data base. The SEED KERNEL stores data efficiently, minimizing the memory requirements for storing and manipulating your data base. Thus, the data base costs less to maintain and may be accessed more quickly.

- GARDEN is an interactive data manipulation language that serves as an applications development tool. You can update or verify the contents of the data base or can test the validity of a program procedure without having to write a host language program.
- SPROUT, an intelligent file converter, is a batch processor for loading or unloading the data base. SPROUT lets you easily convert existing sequential files to a data base or vice versa. Thus, SPROUT simplifies data conversion and preserves the data base contents still to be used by older programs, without recompilation.

2. Decision Support System Option

- HARVEST is an easy-to-use query language that provides a relationallike interface to a SEED data base. HARVEST automatically navigates the data base to locate and retrieve information and can create temporary variables, test for conditions, compute totals and averages, and perform other calculations.
- BLOOM is a nonprocedural report writer that produces detailed, attractive output from a few simple instructions. Users can specify page formats without locating the data and can store and reuse such formats as desired. BLOOM can also perform calculations on information that is being retrieved and reported.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: D. Markovitz, Marketing
(215) 668-0880

SEED SOFTWARE

A Control Data Software Company
Two Bala Plaza, Suite 300
Bala Cynwyd, PA 19008-1541

SIMILE™ Data Base Management System

Operating System: CTS-300, RT-11

Keywords: • Data base management • Programming tools

Developed by ZA-TRO Corporation, this software tool enables non-programmers to develop complete, self-contained application systems based on information retrieval. SIMILE's English-like commands allow a nontechnical user to rapidly build extensive data management applications. Conventional business systems, status and tracking systems, and medical information systems are some typical applications.

Data bases are built by means of an interactive dialog. Data can be entered or displayed by user-defined screen formats. A full-featured report generator produces reports to either a printer or a CRT. Procedure file and menu capabilities allow entire applications to be predefined and used by persons unfamiliar with SIMILE.

SIMILE provides the user with data base definitions that are interactively created and modified; data security that uses a password system to restrict access to data bases and screens; flexible data operations for entry, modification, and display; selection criteria for specifying complex selection conditions and rapidly accessing only those records that qualify; arithmetic definition to define arithmetic relationships between other data base items; data base hierarchy, with items defined as "pointers" to another data base, thus providing a 2-level hierarchy; error handling and conditional branching that allow the systems builder to control and direct the course of operations; and interactions outside of SIMILE that create external data files that can be accessed by other user programs. SIMILE can also use data files created by user programs.

DIGITAL distributes this software product under license from ZA-TRO Corporation, 421 Seventh Ave., Suite 607, New York, NY 10001.

Refer to SPD #A0.09.02 when requesting further information on this product from your local DIGITAL sales office.

SIMILE™ is a trademark of ZA-TRO Corporation.

Price: \$1800

Contact: Consult your local DIGITAL sales office (see Introduction).

SPM-11M (Software Performance Monitor), Version 2.1

Operating System: RSX

Keywords: • Data collection • Real time • Report writer
• Statistics

Distribution media: 9-track 800/1600 bpi magnetic tape, RL02.

This high-resolution, low-overhead, event-driven performance monitor collects data both at the system level and for individual tasks. The SPM-11M monitor runs on the RSX-11M operating system and views the system as a collection of queued resources. Connection points are inserted into the RSX-11M executive where the executive enqueues, dequeues, and completes resource requests, allowing usage and waiting times to be measured for the following hardware and software resources: CPU, memory, I/O devices, file system, and task loader.

The monitor provides task work-load and systemwide resource metrics and features power data reduction and a report-generation capability. Other features are a high-resolution time base (10 microsecond KW11-P clock) and low overhead on the system.

Refer to SPD #S0.01.02 when requesting further information on this product from your local DIGITAL sales office.

Price: \$900 - \$8000

Contact: Consult your local DIGITAL sales office (see Introduction).

SPY: RSX Accounting System

Operating System: RSX

Keywords: • Cost accounting • Statistics

Memory required: About 1K.

This group of tasks provides accounting functions for RSX-11M Version 3.1. Information is logged on use of the system by task, UIC, and terminal; CPU usage is logged by user tasks and by the system. The SPY system works on the system regardless of the multiuser protection feature of RSX. DECUS number 11-372.

Restrictions: SPY needs modification to run without EIS.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

TAB — A Low-Overhead Data Management System

Operating System: IAS, RSX

Keywords: • Data base management • Interpreters

Memory required: 24KW.

This package builds a set of tasks providing a small, relatively unsophisticated data management system in which the user can easily define and manipulate tables of data. Tables are arrays of rows and columns containing data in character form. Tasks are provided to define a table, modify the format of an existing table, update and list the contents of a table, and split and merge tables. An interpreter for

a simple language (RPT) provides a means of writing specific applications, including report generation and table updating. TAB has provisions for arithmetic and string operations, terminal interaction, file I/O, conditional and repetitive execution, and (under IAS) subtasking. Both IAS and RSX-11M build procedures are provided, but only IAS has been tested. DECUS number 11-528.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

TAM (Terminal Access Module)

Operating System: RSTS, RSX

Keywords: • Data entry • Forms management
• Programming tools

Distribution medium: 9-track 800/1600 bpi magnetic tape.

This transaction-processing front-end module provides a wide range of capabilities for handling data entry, inquiry, and update at CRT terminals. Screen layout, prompting text, field edits, cursor positioning, and so on at the CRT are specified by formats, which are sets of statements in a high-level, declarative language. The formats are compiled into a library and are then executed under application program control. TAM contains an extensive set of support facilities for creating, modifying, and testing formats.

Applications communicate with TAM by way of the large-message, send/receive facilities of RSTS/E or with the send/receive and dynamically mapped shared-region facilities of RSX-11M. A transaction-processing application program would, as required, send messages to TAM saying, in effect, "execute format *x* at terminal *n* and return the record of data collected." The critical-performance portions of TAM are implemented in PDP-11 assembly language as shared code.

Under VMS, the TAM format-execution code consists of a set of procedures, called using standard VAX/VMS conventions, which are linked with the user program image. The TAM VAX-11 MACRO procedures are position-independent and are supplied as a shareable image.

A version of this product is available for the VAX computer.

Price: \$6000

Contact: Martha Scott
(617) 861-0670

EVANS GRIFFITHS & HART, INC.

55 Waltham Street
Lexington, MA 02173

TCU-50 (Timing Control Unit)

Operating System: RT-11

Keywords: • Device drivers/handlers

Memory required: 2K.

The Digital Pathways Timing Control Unit (TCU-50) is a self-supporting time keeper designed to operate in a peripheral slot of the LSI-11 system. The TCU-50 can be interrogated by the computer to give the date (month and day) and the time (hour, minute, second). The unit can also be initialized by the computer. The TCU-50 can operate on its own battery power, with the computer off, for up to three months.

Three routines support this card:

- **TIMDAT** — To update "TIME" and "DATE" in the LSI-11 to that in the TCU-50 card
- **TCUSET** — To set the TCU-50 card to "TIME" and "DATE" in the LSI-11 system
- **TCUTST** — A test for the TCU-50 card

DECUS number 11-429.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

TELEP.BAS (Address Manipulator)

Operating System: RT-11

Keywords: • Mailing lists • Presentation aids

TELEP.BAS is a useful, enjoyable program that orders, saves, edits, deletes, searches, and prints names, addresses, telephone numbers, and birthdays. TELEP.BAS lets your computer replace your "little black book." DECUS number 11-255.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Trouble Ticket Reporting System

Operating System: RSTS

Keywords: • Maintenance • Statistics • Telecommunications

This system controls and monitors troubles from the time they are reported, as they are tested and dispatched, until they are cleared. The system maintains statistics and provides reports for completed repairs. Each company can determine how many months of information to retain in history for reporting purposes, using its own acronyms, codes, and customer setup. Most criteria and display fields are user defined. The trouble report can be printed at any location determined by the operator during dispatching. Statistics, including indexes, percentages, and elapsed time to clear, are updated monthly.

Uncleared trouble reports in the system can be accessed through an inquiry function for monitoring status. Access to information can be through any field on the trouble ticket, including equipment assignment, dispatch information, status, and the trouble, found, and cause descriptions for the trouble.

Reports can be set up to run on request or automatically with changes to standard reports or new reports developed easily on line.

Each customer or premise trouble history is kept in summary and in detail in both this system and Customer Service Inquiry.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Paul Jorgensen
(206) 456-3535

ALLIED DATA

P.O. Box 2406

Olympia, WA 98507

Unibase

Operating System: ULTRIX-11, UNIX* (Version 7)

Keywords: • Data base management • Query facilities

This powerful, easy-to-use relational data base management system contains a nonprocedural query language, runs on the PDP-11, VAX, and MC68010 systems, and is fully supported. Unibase is also available for most UNIX* systems.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$800

Contact: Dr. Blaine T. Garfolo
(216) 421-8737

DAYSTROM SYSTEMS, INC.

11206 Euclid Avenue

Cleveland, OH 44106

W

Operating System: RSTS

Keywords: • Software utilities

Distribution medium: 9-track 1600 bpi magnetic tape.

Marquee's W is an all-purpose utility program designed to return commonly requested system information to the user. The program recognizes 18 commands, with the option of stacking commands together. The program is designed as a fill-gap program for the

RSTS/E environment, providing the user with a single source of system information. As a CCL, W can return a maximum amount of information with minimum keystrokes.

Program requirements are a PDP-11/44/70-series CPU, RSTS/E Version 7.0-9, at least 7K user memory allowed, and BASIC-PLUS or BASIC-PLUS-2 package on system.

Price: \$140

Contact: John A. Kraenkel
(415) 949-2390

MARQUEE COMPUTING
456 Tyndall Street
Los Altos, CA 94022

WUTIL

Operating System: RSTS, RSX, RT-11

Keywords: • Programming tools

Distribution medium: 9-track 1600 bpi magnetic tape.

This utility program, available in BASIC-PLUS and BASIC-PLUS-2, can return any or all of the following: time, date, job number, keyboard number, version, account, status, run time, Q&D directory, memory usage map, and errors (in English).

WUTIL uses 8K; clears memory.

Price: \$140

Contact: John A. Kraenkel
(415) 949-2390

MARQUEE COMPUTING
456 Tyndall Street
Los Altos, CA 94022

X-CELL

Operating System: RT-11

Keywords: • Data base management • Report writer

Memory required: 64KB. Distribution media: RX01, RX02.

This user-friendly data base management system that runs on DIGITAL's LSI-11 and PDP-11 family of mini- and microcomputers allows the user to define and allocate field space for any combination of alphanumeric and numeric entries. Each field is given a title up to 30 characters in length. The user may define up to 30 fields a record. The number of records is limited to the available disk space. Records may be defined to be from 1 to 256 bytes in length. Numerical fields can be mathematically defined by equations that are functions of the values of other numeric fields.

X-CELL comes with search and sort capabilities that allow for inclusive and exclusive retrievals and sorts by as many as 15 fields at the same time. The retrieved and/or sorted data may be displayed on the video or the line printer, using any format defined by the X-CELL report generator.

X-CELL comes with a report generator that allows the user to define and build report formats that can be saved and modified as needed. The two basic format types are MEMO, which is used for form letters and other fill-in-the-blank-style reports, and HEADER, which is a column-oriented report. The HEADER-style format also does summations and averages of numerical columns.

X-CELL comes with an input and modify editor that allows for new records to be defined from existing records. The editor also allows for quick modifies and inputs by means of a direct field pointer that allows users to go directly to any field that they wish to edit and to leave editing anywhere within the record.

X-CELL allows for easy switching from one data base to another. An unlimited number of data bases can be accessed.

X-CELL generates documentation for each data base, defining the fields, their titles and lengths, and examples of all report formats defined for the data base. The documentation gives all equations used to define numerical entries.

X-CELL requires RT-11 with BASIC and a VT100 or compatible terminal.

A version of this product is available for the VAX computer.

Price: \$250

Contact: Phyllis Collins, President
(617) 822-3173

INDECS SERVICES
9 Pinecrest Drive
Taunton, MA 02780

XDE (Data Entry and Edit System)

Operating System: UNIX* (Version 7)

Keywords: • Data entry • Data base management
• Forms management

This system is comprised of two programs that are selectable from the XED menu processor: the XFG form generator program for creating forms and the XDE data entry/edit program for building a data base. Pure data entry is done key to disk, similar to standard keypunch operations. Printing utilities allow formatted data to be printed with or without background text.

XFG allows the user to create a form template and to define the parameters for its use. Definitions include operator, computer, and list entry; entry from calculation, cross-field, numerical, or character string; format and character masking; key field; key field prompt; blanked fields; operator or supervisor override; and verification by dual-entry, sight, range, or list matching.

XDE allows records to be created, updated, modified, and printed and provides spreadsheet abilities. Unlimited records may exist in each file. Each record may contain up to 500 fields, and each field may contain up to 64 characters of data. The XDE system provides a bridge for passing information between large data base management systems and the XED word processor. The system can also be used as a user-friendly front end for the data base manager.

XED office system programs are designed and coded for UNIX* Version 7, System III, System V, and Berkeley 4.1 and 4.2 to provide maximum installation flexibility and efficiency in a multiuser environment.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Ted Ferguson

(818) 884-2000

COMPUTER METHODS, LTD.

P.O. Box 3938

Chatsworth, CA 91313

XPlan Plus

Operating System: RSTS

Keywords: • Spreadsheets

This powerful spreadsheet program is used in all markets for spreadsheet applications. XPlan can handle from 350 items to 50,000 items and can produce typed reports. XPlan Plus is limited to BASIC-PLUS and VAX/VMS BASIC.

A version of this product is available for the VAX computer.

Price: \$399 - \$499

Contact: M. Stewart

(441) 897-9731 ext. 17

XPLAN CORP.

P.O. Box 327

London, W44QD

England

XSH (Menu Processor/User Interface)

Operating System: UNIX* (System III, System V, Version 7)

Keywords: • Development tools • File management
• Programming tools

The XSH menu processing system provides a menu-driven, shell-like interface between the user and the UNIX* operating system. XSH is tree-structured and recursive, with no restrictions on the number of menu levels. The menu processor allows the creation, deletion, and manipulation of UNIX* directories and files, provides for vertical market integration of other program modules, and can be installed as the log-in shell to assist the inexperienced UNIX* user.

Standard interfaces include hooks into all the XED office system modules, including the XED word processing system, the programmer's editor, forms generator, data entry and financial analysis, printer/spooler system, electronic mail, and document assembly. The menu processor also permits interactive UNIX* shell commands. Maximum installation flexibility and efficiency in a multiuser environment are provided.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Ted Ferguson

(818) 884-2000

COMPUTER METHODS, LTD.

P.O. Box 3938

Chatsworth, CA 91313

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Insurance



Owen Franken/Stock, Boston

Easypost Insurance Agency Management System

Operating System: RSX, RT-11, ULTRIX-11

Keywords: • Billing • Financial planning

Memory required: 128K. **Distribution media:** 5¼" or 8" diskettes.

This system, written in RM COBOL and developed by Advanced Business Systems, Inc., is a comprehensive, computer-based information system that offers agents complete control of their businesses. This program is continually upgraded, using the suggestions of industrial professionals, such as agents, accountants, and computer specialists. Easypost provides efficient customer service by offering easy access to customer information. A report is available, listing current customers with a potential for increased sales, thus improving a company's marketing strategy. The system automates daily and monthly accounting procedures by using standard accounting practices. This system also improves management and administrative decisions through such reports as Receivables Aged Analysis, Claims Status Register, Producer Production, Direct Bill, and Premium Finance Status.

A version of this product is available for the VAX computer.

Price: \$4000

Contact: Bob Ginn

(901) 767-3759

INDUSTRY SOFTWARE SALES, INC.

P.O. Box 240804

Memphis, TN 38124

Group Health and Life Insurance

Operating System: RSTS

Keywords: • Medical

This single, integrated on-line computer system automates the administration and claims processing of group health and life insurance. The system is used by agencies, third-party administrators, insurance companies, and other organizations that provide health and life insurance benefits to groups of individuals. The system has two modules: GBAS (Group Benefits Administration System) and CPS (Claims Processing System), both of which use the same data base for interface purposes.

The Group Benefits Administration module provides enrollment and maintenance of groups and individuals, automatic rating, premium calculation (including prorating) and billing, cash application, commission processing, carrier reporting, certificate and I.D. card issuance, and claims verification. The Claims Processing module provides eligibility determination, benefits calculation, production of checks and worksheets, on-line access to claim and payment history, and analysis of payment and premium history.

The system interfaces with word processing (DECword/DP) software.

Price: \$20,000 – \$90,000

Contact: Wendy Syrinek

(713) 496-0771

SPARTIN SYSTEMS

14925-A Memorial Drive

Houston, TX 77079

Independent Insurance Agency Accounting System

Operating System: CTS-300, RT-11, TSX-PLUS

Keywords: • Accounts payable • Accounts receivable • Billing
• General ledger

This complete accounting system for property and casualty insurance agents produces monthly customer statements and reports from daily invoicing, cash receipts and disbursements, and journals.

The system includes aged accounts receivable listings by customer and optionally by producer, month-end insurance company account current reports, company open-item accounts payables, producer open-item accounts payables, expiration controls with multiple selections, and a general ledger with balance sheet and operating statements. Premium and commission statistics are optionally available by company, by producer, or by class of business.

Price: \$5000

Contact: Sam Wingate, Vice President

(813) 935-8844

AUTOMATION RESOURCES CORP.

2901 W. Busch Boulevard, Suite 309

Tampa, FL 33618

Insurance Agency (Casualty)

Operating System: RSTS

Keywords: • Billing • Sales and marketing • Statistics

The Insurance Agency (Casualty) package is structured for single-agency or multicompany operations and is built for customer service representative marketing concepts. The package uses an expansive policy file, permitting a large array of reports, advices, and letters. Invoices for current, prerenewal, installment, and advance bill are generated. The system also prepares sales statistics, accounts receivable statements and related reporting, accounts current, commissions, expirations, claim processings, customer profiles, insurance binders, cancellation requests, requests for policy changes and renewals, loss notices, certification of insurance, history ledger call-out, book of business, new business, and so forth.

Price: \$12,000 - \$16,000

Contact: R. Bud Brummer
(605) 343-7800

CUSTOM COMPUTER SERVICES, INC.
P.O. Box 1738
Rapid City, SD 57709

Insurance Agency Package

Operating System: CTS-300, RT-11

Keywords: • Accounts payable • Accounts receivable
• General ledger • Sales analysis

This comprehensive system for the small to medium-size insurance agency handles the complete accounts receivable, accounts payable, and general ledger requirements of the agent, together with premium, commission, and sales analysis reports.

A version of this product is available for the VAX computer.

Price: \$5000 - \$10,000

Contact: Nigel Harris
(613) 829-8888

HARRIS COMPUTER SYSTEMS
16 Credit Union Way
Nepean, Ontario K2H 8R6
Canada

IRI/CRIS (Credit Insurance System)

Operating System: RT-11

Keywords: • Health care • Information management
• Report writer

This module provides the insurance company with an on-line consolidated system that supports the administration of credit life and health insurance. The system is comprised of five subsystems:

- Support File Maintenance for the creation and updating of the Creditor, Audit, Situation, Reserve Factor, and Premium/Benefits files
- Certificate File Maintenance for the creation and updating of certificate information
- Experience and Creditor Reporting
- Alpha Edit
- Actuarial Reporting for the creation of detail reserve records for each certificate and the generation of supporting detail for the N.A.I.C. convention blank

Price: Available upon request

Contact: Bill Leroy, President
(404) 231-3117

RESOURCEFUL SOLUTIONS
470 E. Paces Ferry Road, Suite 1020
Atlanta, GA 30305

IRI/Ordinary

Operating System: RT-11

Keywords: • Billing • Health care • Report writer
• Statistics

The IRI/Ordinary Life Insurance System supports the administration of individual life and accident and health policies from policy inception through termination. Support systems include policy administration, agents compensation, policy exhibit, valuation, and plan values.

Price: Available upon request

Contact: Bill Leroy, President
(404) 231-3117

RESOURCEFUL SOLUTIONS
470 E. Paces Ferry Road, Suite 1020
Atlanta, GA 30305

Property and Casualty Insurance System

Operating System: RSTS

Keywords: • Accounts payable • Accounts receivable
• Property management

Designed for a surplus-line company that provides service to a series of agencies or brokers, this system automatically prepares daily invoices and a sales journal. Accounts payable and accounts receivable are also automatically maintained. A renewal report automatically selects policies that will expire within a given time period for your use in obtaining renewal business for those policies. The availability of an aged receivables report by broker and invoice is an invaluable collection tool. Detailed listings of cash receipts and disbursements provide a complete record of all transactions processed by the system.

Price: \$3000 - \$5000

Contact: Robert Davidson
(215) 836-1406

TIME SHARING CONSULTANTS OF PENNSYLVANIA,
INC.
6107 West Mill Road
Flourtown, PA 19031

UDS IAS (Insurance Accounting System)

Operating System: RT-11

Keywords: • Accounting • General ledger
• Information management

This complete system for the multioffice company provides such general accounting functions as monthly P&L for each office, as well as consolidated accounting with prior-year and budget comparison; accounts receivable; accounts payable with vendor 1099; payroll; construction investment; and schedules for fixed assets, notes payable, notes receivable, and other schedules as needed by the customer.

The system also provides insurance functions: equal detail reporting for agency and direct bill; CRT customer file retrieval of all accounting and policy coverage; automatic worksheet to reduce effort to renew policy; accounts current; exception report when correct commission is not received; X-date system; ACCORD forms; evaluation of producers; and summary management reports for company, producer, and class of business, showing year-to-date premiums and commissions and comparison to prior year. The system generates detail transaction ledgers for customer, company, and producer.

The UDS Insurance Accounting System may be integrated with the UDS systems for real estate and property management. All UDS systems are delivered with word processing capability.

Price: \$4800 - \$12,000

Contact: William P. Irwin, Jr., Director of Marketing
(404) 724-7761 or (800) 241-2404

UNITED DATA SYSTEMS, INC.

501 Greene Street, Suite 220

Augusta, GA 30901

Law



Black Star Publishing Company/Fred Ward

AIMS (Attorneys Interactive Management System)

Operating System: RSTS

Keywords: • Accounts receivable • Billing
• Information management

AIMS is designed to manage time and expense billing for law firms of all sizes and is available as part of a time-share service or an in-house system. AIMS is a multiuser system, allowing simultaneous access to all application programs from any of the on-line terminals. Timely and complete information is always available and is continually being updated.

The four major elements of AIMS are time and expense billing, type-writer-quality statements, interactive accounts receivable, and management information reports. An option is OCR entry of timesheets.

Additional applications are interactive general ledger, accounts payable, payroll, and telephone management.

Price: \$15,000 +

Contact: Larry L. Alexander
(214) 934-0031

FULTON BUSINESS SYSTEMS
4950 Keller Springs Road #280
Dallas, TX 75248

Conflict of Interest

Operating System: CTS-300, RSTS, RT-11

Keywords: • Decision support • Information management
• Query facilities

This package allows law firms to quickly and easily determine if a conflict of interest would exist if a potential new client were brought into the firm. The software allows law firms to create and maintain files containing names of all clients and related parties of interest to the firm and to search easily and quickly through those files.

Price: \$3500

Contact: Suzanne Gunnells
(215) 825-7500

COMPUTE-R-SYSTEMS, INC.
5165 Campus Drive
Plymouth Meeting, PA 19462

Docket/Calendar System

Operating System: CTS-300, RSTS, RT-11

Keywords: • Information management • Scheduling

The Docket/Calendar System enables law firms to track dates and specific actions that are critical in complying with governing laws and regulations. The system permits files to be created and maintained that contain dates and specific actions that must be performed by those dates, in compliance with laws and regulations. Listings in various sequences are printed so that the responsible people can be notified.

The Docket/Calendar System is another aid to law firms wishing to computerize records keeping. The system builds a file of dates, along with actions to be performed by those dates, then generates reports to notify those who are responsible.

Price: \$4000

Contact: Suzanne Gunnells
(215) 825-7500

COMPUTE-R-SYSTEMS, INC.
5165 Campus Drive
Plymouth Meeting, PA 19462

General Ledger

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounting • General ledger

This package enables law firms to computerize accounting books and records. The system provides all financial statements, such as trial-balance and comparative-balance sheets, general ledger, income and expense statements, and statements of partners' capital expenses.

The General Ledger package interfaces to the Management Program 1000/Management Program 2000 timekeeping and billing system. That integration between the two packages allows the general ledger to be easily maintained, with little duplication of effort.

A version of this product is available for the VAX computer.

Price: \$5000

Contact: Suzanne Gunnells
(215) 825-7500

COMPUTE-R-SYSTEMS, INC.
5165 Campus Drive
Plymouth Meeting, PA 19462

Law Firm Management System

Operating System: RSTS

Keywords: • Accounting • Billing • Cost accounting
• Information management

The Law Firm Management System is available as a complete stand-alone system or may be purchased through a software license. The system handles client matters, collection of time/disbursements for a matter, trust accounting, interim and final billing, individual time management, accounts receivable, cash flow/bank, and general ledger/financial statements. Complete documentation, training, installation, and support are included.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$30,000

Contact: George K. Fleming
(807) 623-2310

G. K. FLEMING AND ASSOCIATES LTD.
1118 Roland Street
Thunder Bay, Ontario P7B 5M4
Canada

Law Office Management System

Operating System: CTS-300

Keywords: • Accounting • Billing • Financial management
• Recruiting

This fully integrated accounting system provides client billing and expense accounting, accounts receivable, accounts payable, automatic checkwriter, general ledger, trust and fiduciary accounting, and personal account statements. Other DP applications for the law office include docket control, a search and retrieval system, fixed asset control, personnel leave, and associate recruiting.

A version of this product is available for the VAX computer.

Price: \$5000 – \$25,000

Contact: Carolyn Burneston, Marketing Manager
(301) 652-2802

BEERS & ASSOCIATES, INC.
7910 Woodmont Avenue
Bethesda, MD 20814

Legal Management System

Operating System: CTS-300, RSTS, UNIX* (Version 7)

Keywords: • Accounts payable • Accounts receivable • Billing

This system offers specialized legal time billing, accounts receivable, and management report programs designed for small and medium-size law firms. Features include unlimited timeslip narrative, multiple statement formats, trust and/or retainer modules, and an optional finance charge. This table-driven package is tailored to specific needs of firms. The PDP-11 system also tracks receipts by lawyer and area of practice, as well as the associated billings.

The system contains an annual enhancement program that responds to the changing requirements of firms and their clients. An outstanding training program for the administrator as well as the operator is offered along with the annual user meetings.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$2500 - \$19,000

Contact: Marc Alexander, National Sales Manager
(503) 641-8100

ALPINE DATASYSTEMS, INC.

8043 SW Cirrus Drive

Beaverton, OR 97005

Legal Time and Accounting System

Operating System: RSTS

Keywords: • Accounting • Cost accounting • Scheduling
• Word processing

This system, designed for a single or multigroup firm of lawyers, records and accumulates the lawyer's time on a case-by-case basis for billing and reporting purposes. Client billings, produced on a case-by-case basis, include lawyers' time and expenses. The user can input time from lawyers' time slips. The entry may include the lawyer, client, case, time involved, type case (probate, tax, and so forth), and free-text description of service rendered. Each lawyer's standard fee is built in but can be overridden on each entry. The system also includes complete word processing capability and accounting, including general ledger, accounts payable, and payroll.

Available reports are Current Month Billing, Accounts Receivable Aged Account, Billings in Suspense, Average Rate per Hour Billed versus Hours Incurred, and Billings by Case Type.

A version of this product is available for the VAX computer.

Price: \$1500 - \$20,000

Contact: Marty Carpenter
(405) 843-7323

DATATEK CORP.

818 N.W. 63rd

Oklahoma City, OK 73116

Legal Time and Billing System

Operating System: RSTS

Keywords: • Accounts receivable • Billing
• Financial analysis • Report writer

Distribution media: RK07, RL02.

This system applies reported time and expenses to appropriate client matters and monitors accounts receivable. The system provides comprehensive financial and management reports, including productivity analyses; revenue reports by attorney, client, and matter type; aged accounts receivable; and the value of unbilled time and unbilled advanced costs.

As many as five rates are stored for each attorney. Special rates can be applied for any client or matter.

The flexible billing process flags statements due by frequency, by threshold dollar amount, or by discretion. Bills can be generated by attorney, by client, or by matter. The system produces inquiry, edit, and final bills. The bill format can display as many as 1200 characters of explanatory notes for each time and expense entry. The system calculates tax for states that tax personal services.

Complete audit trails are created. In addition to the integral accounts receivable function, the system interfaces with other accounting modules, such as general ledger.

A version of this product is available for the VAX computer.

Price: \$20,000

Contact: Ralph S. Trigg, Jr.
(505) 842-1247

AUTOMATED OFFICE SYSTEMS, INC.
P.O. Box 100
Albuquerque, NM 87103

LOFT (Law Office of the Future, Today)

Operating System: M (MUMPS)

Keywords: • Accounts payable • Accounts receivable
• Office systems • Payroll

The LOFT system provides time and disbursement recording, which permits unlimited narrative and a dictionary of abbreviations. The system allows various formats for final bills, with unlimited narrative, complete detail by entry, or paragraph format. Time/disbursement entries may be transferred from one client/case to another, with complete audit trails. Complete historic accounts receivable with all detail may be maintained, plus the system provides the ability to "unbill" bills, edit, and rebill, leaving an audit trail. The system also features integrated accounts/payable, client accounting, and general ledger, with automatic check writing and complete general ledger narrative; conflict-of-interest checking for maintaining a regular alpha look-up file, as well as a compacted alpha file, stripping out the vowels; a payroll system; and word processing — OEM for MASS-11 (MicroSystems Engineering).

A version of this product is available for the VAX computer.

Price: \$2000 - \$35,000

Contact: Leon M. Padell
(617) 426-1040

LEGAL DATA SYSTEMS, INC.
50 Franklin Street
Boston, MA 02110

Management Program 1000®

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounting • Accounts receivable • Billing
• Management

This set of programs offers efficiency, flexibility, and convenience to law firms in the area of financial accounting. The software tracks unbilled time, unbilled disbursements, and accounts receivable information. A comprehensive set of reports, in a wide variety of formats and sequences, is designed to manage unbilled inventory and accounts receivable and to automate the billing process. Management reports show profitability by type of law, attorney performance and utilization, and analysis of billing efficiency and provide exception reporting.

The package also features a bill-formatter program, which produces customized client bills, and a report writer program, which generates customized reports. In addition, an automatic transfer routine for unbilled time and disbursements and a status inquiry program enhance system flexibility.

A version of this product is available for the VAX computer.

Other options to the in-house system include word processing, litigation support, docket control, conflict-of-interest check, and general ledger.

Price: \$32,000

Contact: Suzanne Gunnells
(215) 825-7500

COMPUTE-R-SYSTEMS, INC.
5165 Campus Drive
Plymouth Meeting, PA 19462

PICALC: Lifetime Earnings Estimation

Operating System: RT-11

Keywords: • Calculation aids • Financial analysis
• Insurance

PICALC estimates the present value of an individual's lost lifetime earnings, for use in personal injury, wrongful death, and medical malpractice arbitration and litigation. Options include gross income and after-tax income estimates, single- and multiple-salary persons,

retraining and alternative employment allowances, valuation of working and home-oriented housewife's services, allowances for personal-consumption expenditures, estimation of in-kind contributions, and federal civil service, seamen, longshoremen, and other "special cases."

The program uses age/sex life expectancy and work-life expectancy look-up tables to determine the time span of regular and retirement pay earnings losses. A subroutine estimates federal tax liability for single and married persons.

Inputs include injured party's dates of birth, injury, or death; expected trial date; preaccident income and fringe benefits; start-year retirement pay; proposed discount rate; and expected inflation rates. Outputs include present value and disbursement tables by year.

Customized special programs of this kind are available on three days' notice.

A version of this product is available for the VAX computer.

Price: \$500 - \$800

Contact: David Bradwell, Ph.D., President
(415) 479-4980

DAVID BRADWELL AND ASSOCIATES, INC.
Economic Consultants
880 Las Gallinas Avenue
San Rafael, CA 94903

Police Records System

Operating System: RSTS

Keywords: • Data base management • Information management
• Statistics

This comprehensive police records system tracks criminal records, fingerprints, physical characteristics, crime statistics, demographics, and other useful and readily available information for use in crime prevention, apprehension, and reporting.

A version of this product is available for the VAX computer.

Price: \$8000 +

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

POMS (Professional Office Management System)

Operating System: RSTS, RSX

Keywords: • Accounts receivable • Billing • Report writer
• Scheduling

Distribution media: 9-track 800/1600 bpi magnetic tape and most standard DIGITAL disk cartridges.

This series of programs for running a smooth, efficient office includes time entry/analysis, expense and disbursement reporting, work-in-process tracking, bill preparation, and more. POMS is available for fast, efficient, trouble-free installation. POMS is a turnkey system, which means hassle-free transfer from your current system to POMS.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: George B. Weaver

(612) 571-1249

CUSTOM DIGITAL SERVICES

999 50th Avenue Northeast

Minneapolis, MN 55421

THE UNIVERSITY OF CHICAGO

THE UNIVERSITY OF CHICAGO
 LIBRARY
 540 EAST 57TH STREET
 CHICAGO, ILL. 60637

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 540 EAST 57TH STREET
 CHICAGO, ILL. 60637

Library Science



BiblioTech Library Software Systems

Operating System: RSX

Keywords: • Data base management • Forms management
• Information management • Report writer

These modules for the company library or information center support the management, clerical, and intellectual efforts of a vital research library. Basic BiblioTech consists of three modules: catalog update, authority update, and a browsing module that serves as an on-line catalog. Additional modules are Circulation, Periodicals Control, and Rapid Data Entry for converting card files.

BiblioTech is based on DRS (Data Retrieval System) and is delivered on 9-track magnetic tape with DRS. Librarians use DRS, a mature and reliable data base management system, with BiblioTech for information retrieval and management. The library data base can be updated interactively or in batch mode.

Most BiblioTech modules can be used alone or in conjunction with other modules. The modules interact, using a single data base. Data entered in any one of the modules updates the files and data in the other modules. The full set of modules eliminates the redundancy in capturing and storing information needed for acquisition, storage, or retrieval operations.

The BiblioTech system allows the user to enter bibliographic information when material is being ordered. The system prints order forms. Items on order are automatically available for searching, with the status displayed in the Browsing module. The system tracks department charges, cost of material, and the person requesting the material. BiblioTech Browsing works through menu options; the user scans indexes, eliminating the need for a card catalog.

BiblioTech provides support for the on-line catalog, quality indexing and abstracting for better retrieval, more timely indexes and catalogs, better current awareness services, a better-managed collection, and full Boolean search capabilities to information resources and to fields of data in the data base. For the technical or company library with diverse and unique information resources that need to be in a single data base, this system provides a simple and cost-effective solution.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$21,000

Contact: Lynda W. Moulton
(617) 897-7163

COMSTOW INFORMATION SERVICES
302 Boxboro Road
Stow, MA 01775

GS-400 Circulation Control System

Operating System: RSX

Keywords: • Data collection • Information management
• Statistics

Gaylord's service bureau approach to circulation offers libraries the benefits of an automated system without the need for on-site programmers or operators. The GS-400 eliminates the tedious repetitive tasks of carding returned items and overdue-notice production. A light pen attached to a terminal is used to scan item and patron labels. File updating automatically generates daily, monthly, and yearly circulation and patron reports. Overdue notices and inter-library loan statistics are produced weekly. Libraries sharing the same DIGITAL minicomputer can take advantage of a sophisticated ILL system. The computer searches for ILL requests and alerts the owning library of the request, eliminating multiple forms and endless delays.

Management reports and statistics provide a detailed view of activity within specific locations. Circulation and usage reports are broken down by material type, call number group, and patron type as detailed as the library requires.

The GS-400 offers libraries circulation control, reduced clerical effort, and improved resource sharing.

Price: Available upon request

Contact: Margaret A. Trinca

(315) 457-5070 ext. 249 or (800) 448-6160

GAYLORD BROS., INC.

P.O. Box 4901

Syracuse, NY 13221

Medianet

Operating System: RSTS

Keywords: • Inventory • Networking • Scheduling

Distribution medium: 9-track magnetic tape.

This media management/distribution system for individual and interlinked libraries performs resource booking, pick lists and shipping labels, reports, intranetwork communications, and client notices and messages functions. The system features on-line interactive reservations, updates, and information displays; optimized machine usage by user-controlled deferred batch processing of reports and notices; a direct computer-to-typesetter catalog option; a comprehensive electronic mail communication system; and table-driven shipping modes, holidays, transit delays, and so on.

Medianet's powerful report writer enables the user to customize standard reports by choosing sorts, page, paragraph and total breaks, print variables, and record selection.

A version of this product is available for the VAX computer.

Price: \$20,000

Contact: Robert Brown
(902) 429-3175

DYMAXION RESEARCH LTD.
Box 1053, Armdale Station
Halifax, Nova Scotia B3L 4L5
Canada

REF-11™

Operating System: RSX, RT-11, TSX-PLUS

Keywords: • Data base management • Research
• Text management

Distribution medium: RX01.

REF-11 is an easy-to-use, menu-driven data base management system for references, which can be created, searched, updated, and output in various forms. The data base of references may be distributed among any number of references volumes (data files). Variable-length direct-access records are used within a reference volume to store the reference information. That format is as fast as fixed-length direct-access storage and uses less space than a text file would to store the same information.

REF-11 uses full-screen data entry to create new references or to update existing ones. The user uses the cursor keys to move between data fields. If the terminal does not have cursor keys, any character sequences can be defined as cursor keys.

References can be located within a reference volume by searching for any combination of authors, years of publication, reference title (or any words in the title), and topics covered by the reference. Wildcards may be included in any of the search parameters. In addition, a reference may be located by a unique ID number assigned by the REF-11 system when the reference is created.

REF-11 can produce many different listings of the references in a reference volume and can send them to any device or file on the computer system. The references included in the listing may be all of the references in a volume, just user-specified ID numbers, or just the references that meet search parameters. Optionally, the references can be alphabetized in the listing.

A unique feature of REF-11 is the formatted bibliographic listing. The page size, line spacing, punctuation, and format of the bibliography are controlled by the user. References can be alphabetized. Journal titles can be abbreviated from user-defined tables.

An optional utility program can read a paper, insert reference citations in the paper, and prepare a bibliography of the references cited. The bibliography may be included at the end of the paper. Another utility program can read references from text files and store them in REF-11 reference volumes.

REF-11 runs on any 80-column 24-line video terminal with direct cursor addressing and with any printer. Up to 10 terminal types can simultaneously be supported on a computer system.

A version of this product is available for the VAX computer.

Price: \$195 - \$350

Contact: Robert Parker

(203) 247-8500

DG SYSTEMS

322 Prospect Avenue

Hartford, CT 06106

ULISYS

Operating System: RSTS

Keywords: • Information management

This turnkey management information system for libraries consists of a set of complex computer programs and computer hardware. The program includes all relevant software for the creation, maintenance, backup, and recovery of all files, which combine to form the ULISYS data base.

Circulation control functions consist of check out/check in, fines management, holds (reserves) management, message storage and retrieval, interbranch/interlibrary loans, activity-status reporting, reserve book room, search, subject and name authority files, recall, and information and referral.

ULISYS includes on-line public access with comprehensive instructions to help inexperienced users locate sought-after material.

The system is also available on a "software-only" basis.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: J. A. Speight, President
(604) 926-7421

UNIVERSAL LIBRARY SYSTEMS

205-1571 Bellevue

West Vancouver, British Columbia V7V 1A6

Canada

Management



POSITIVE IMAGES/Jerry Howard

ACUITY Labor/Other Direct Costs Projections

Operating System: UNIX* (System III, System V, Version 7)

Keywords: • Cost accounting • Forecasting
• Project management • Spreadsheets

This forecasting system enables the project manager to accurately estimate project labor costs, nonlabor costs, and revenues, using an interactive spreadsheet format. Used with the other ACUITY systems, planning can include precise labor rates from the payroll system; anticipated revenue, using exact rates for labor overhead, G&A, and fee; and labor hour budgeting. If desired, those forecasts can be entered into the ACUITY Project Management system as budgets. Multiple planners can provide estimates for different portions of large projects. The estimates can be merged for reporting purposes.

Additional features include up to 24 planning periods, separately maintained regular and overtime hours, automatic forecast cloning, consolidation of projections and actuals, department recap of labor requirements, planning of to-be-determined employees, comparisons to standard hours available in a month, and separate nonchargeable departments, which can be excluded if desired.

Designed for companies ranging from 5 to 2000 employees, ACUITY Financial Software offers sophisticated audit trails, security by application and by user, local printer support, and TTY handler for Packet Switched Networks (such as TELENET). Computer Cognition supports end users with a 1-year warranty, with maintenance available thereafter. Installation, training, and customization are available.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$1500 - \$9500

Contact: Sherrell Harper
(619) 474-2010

COMPUTER COGNITION
225 W. 30th Street
National City, CA 92050

ACUITY Project Management

Operating System: UNIX* (System III, System V, Version 7)

Keywords: • Cost accounting • Engineering • Government
• Project management

ACUITY Project Management system, when used with ACUITY Payroll, Accounts Payable, Accounts Receivable, and General Ledger, is a full job-cost system tailored to engineering firms and government contractors. Labor costs are collected through Payroll, and other direct costs are collected through Accounts Payable. Those costs are posted to projects and tasks. The costs are then marked up

according to the user-specified billing formula. Reports show actual and marked-up costs as well as budgets (optional). All detail is kept on the system so that project reports can be run for any time period, such as weekly, monthly, year to date, or project to date. The system produces customer invoices on demand.

Additional reports include management cost summary, revenue sources report, chargeability report, unbilled AR report, and detail distribution report. Additional features include activity code maintenance, department reporting, milestone maintenance, subcontractor maintenance, and budgeting by project, task, or period.

Designed for companies ranging from 5 to 2000 employees, ACUITY Financial Software offers sophisticated audit trails, security by application and by user, local printer support, and TTY handler for Packet Switched Networks (such as TELENET). Computer Cognition supports end users with a 1-year warranty, with maintenance available thereafter. Installation, training, and customization are available.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$1500 - \$9500

Contact: Sherrell Harper

(619) 474-2010

COMPUTER COGNITION

225 W. 30th Street

National City, CA 92050

ACUITY Work Breakdown Structure Reporting

Operating System: UNIX* (System III, System V, Version 7)

Keywords: • Government • Project management • Scheduling

Used in conjunction with the ACUITY Project Management System, ACUITY WBS Reporting is well suited for a familiar government contracting specification. The WBS Reporting System provides greater levels of detail for a user-defined specification of task groupings and a set of reports that reflect those groupings. Up to six levels of user-specified groupings, called WBS units, are allowed with user-specified names for those entities. For each level and each WBS unit, labor hour, cost, and ODC budgets can be specified. Reports show comparison of actual with budgeted amounts for hours and costs or revenues. WBS reports can be run for any date range — weekly, monthly, project to date, and year to date.

Designed for companies ranging from 5 to 2000 employees, ACUIITY Financial Software offers sophisticated audit trails, security by application and by user, local printer support, and TTY handler for Packet Switched Networks (such as TELENET). Computer Cognition supports end users with a 1-year warranty, with maintenance available thereafter. Installation, training, and customization are available.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$1500 - \$9500

Contact: Sherrell Harper
(619) 474-2010

COMPUTER COGNITION
225 W. 30th Street
National City, CA 92050

ASA PMS (Project Management System)

Operating System: RSTS, RSX, RT-11

Keywords: • Graphics • Project management • Scheduling

This project management system allows the user to plan project schedules; to compare the project plan with job performance; to forecast future time, manpower, and cost requirements; and in a simulation mode, to evaluate the impact of management decisions. The system works on time-sharing, on-line, batch, and stand-alone machines. The ASA PMS project scheduling library contains the Critical Path Method (CPM), Precedence Method (PDM), and Bar Chart Processing (Gantt).

The system includes five major modules. The Scheduling Program computes the project schedule and compares the project plan with job performance. The Resource Program contains resource-loading and resource-leveling algorithms. The Cost Program performs cost analysis and computes the earned values. The Multiproject Routine combines the data files of several projects. The Graphics Program produces machine-drawn network logic diagrams, time-scaled network diagrams, and bar (Gantt) charts and operates both pen and electrostatic plotters.

Supporting routines are available for on-line editing, a report writer, complete work breakdown structure processing, what-if simulation, multilevel network processing, the report control routine, and report spooling.

Each ASA PMS Project Management System is installed with a 30-day money-back guarantee, a half-year free consulting contract, a training program lasting two to five days, manuals, and six months of free maintenance.

A version of this product is available for the VAX computer.

Price: \$9000 - \$80,000

Contact: Andrew Sipos
(212) 321-2408

ANDREW SIPOS ASSOCIATES
355-26B South End Avenue
New York, NY 10280

CAMIS (Consultants' Accounting and Management Information System)

Operating System: UNIX* (Version 7)

Keywords: • Accounting • Information management

More than just an accounting package, CAMIS provides the consulting manager and executive with timely information on profitability by department, job, and client; employee utilization; productivity and contribution to profit; status of job billing; details and aging of work in progress; and other data essential to running a tight, well-disciplined, and profitable operation. Despite its power, CAMIS is user friendly, fast, and reliable. The menu-driven format, numerous prompts and messages, help features, error trapping, and sophisticated data backup and recovery procedures make CAMIS simple to use even for those with no prior computer experience. CAMIS is composed of four integrated modules: job cost, accounts receivable, general ledger, and accounts payable.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$3750 - \$12,000

Contact: Joseph Grillo
(617) 965-5059

BETA PRINCIPLES
203 Beethoven Avenue
Newton, MA 01940

Chronometrix

Operating System: CTS-300, Independent, RT-11

Keywords: • Cost accounting • Data collection • Personnel
• Project management

Memory required: 256KB. Distribution media: magnetic tape, RL01, RL02, RX01, RX02.

This data collection system, written in DIBOL, provides real-time labor and job-costing information for productivity improvement, planning, and payroll. Applications include payroll, automatic recording of time and attendance information, employee location, employee's work status and performance, productivity, reports for

individual and group performances, and labor allocation job costing by department, cost centers, work orders, or jobs. Data collection and display terminals can be located throughout the office and plant.

Price: \$6000 - \$16,000

Contact: John B. Hires

(201) 529-4553

JBH ASSOCIATES, INC.

200 Route 17 South

Mahwah, NJ 07430

DDM-11 (Due-Date Monitor)

Operating System: CTS-300, RT-11

Keywords: • Accounting • Law • Project management
• Scheduling

Distribution media: magnetic tape, RL02.

This is a multilevel approach to the management of a work load as it is distributed over a staff. The closed-loop DDM-11 system allows the user to assign tasks with their due or critical dates to individuals. The user may also create cataloged and noncataloged descriptions of repetitive or recurring tasks and enter entries as permanent or non-permanent. Year-end rollover and mass loading are supported. Assigning and responsible producers, coded tasks and manually input task descriptions, specific date calculations, and client/manager maintenance, including telephone numbers, are supported. The loop is closed by using the event reconciliation feature — marking the event as having been accomplished, by whom, and on what date. Complete historical and archival storage capabilities, along with historical reporting for tracking and audit purposes, are also supported. Reporting by producer, by client, and by task is available. Multiple restrictions can be placed on report generation, allowing the user to tailor a report. Late reports and elapsed-time-to-completion reporting are also supported.

Although developed by a CPA firm for certified public accounting and legal firms, the DDM-11 can be used effectively for project management, controlling service contracts for equipment, and for any other type of management setting in which events must be performed by individuals by specific dates.

A version of this product is available for the VAX computer.

Price: \$995 - \$1995

Contact: C. Lee Cates

(615) 523-0553

DORROUGH PARKS & CO.

119 Summit Hill Drive

Knoxville, TN 37902

DYNAMO

Operating System: IAS, RSTS, RSX, RT-11

Keywords: • Compilers • Decision support • Energy
• Simulation

This continuous simulation language has been extensively used in the modeling of industrial, social, economic, and engineering systems. The language is easy to learn and therefore quite useful in educational environments.

Model construction is simplified through several DYNAMO features. Equations may appear in any order to facilitate documentation; commonly used functions are built in; debugging is simplified through extensive error checking with clear error messages; and the RERUN capability permits repeated simulations, each with different parameters, without recompiling.

DYNAMO is available on magnetic tape or, for PDP-11V03s, MINCs, or similar LSI-11-based systems, on diskettes.

Educators interested in applications of DYNAMO at the high school or college level may be interested in related publications available from the vendor.

A version of this product is available for the VAX computer.

Price: \$1500 - \$10,000

Contact: Jack Pugh
(617) 864-8880

PUGH-ROBERTS ASSOCIATES, INC.

Five Lee Street

Cambridge, MA 02139

Executive Information and Action Screen

Operating System: RSTS

Keywords: • Data collection • Electronic mail
• Query facilities

Memory required: 256KB and 20MB of disk storage. Distribution medium: 9-track 800/1600 bpi magnetic tape.

This program supplies cash balances by account; cash receipts, cash disbursements, billings to date, and bookings to date for the month; backlog; and accounts payable and accounts receivable details. The program stores personal data, such as addresses, phone numbers, birthdates, and a budget, and also allows inquiry to any financial programs for specific orders, accounts receivable and payable, or general ledger account.

The program has a clock, a beeper to signal appointments, and a calculator and can send messages to other terminals or a message center.

Our software warranty provides users with comprehensive support and training. Each turnkey system includes up to four hours' field training for each package, at no charge, during the first 30 days following installation. A user manual is provided with each software package.

The software, written in BASIC-PLUS, runs under RSTS/E on DIGITAL PDP-11 and compatible minicomputers. End-user, OEM, and software reseller licensing agreements are available.

Price: \$1495

Contact: Warren C. Nagler

(714) 997-8927

JADTEC, INC.

546 West Katella Avenue

Orange, CA 92667

FINGRAPH

Operating System: CTS-300, RSTS, RSX

Keywords: • Decision support • Financial analysis • Graphics

This visual management support system provides instant graphic pictures of your business performance. Key business trends and relationships can be communicated companywide in understandable visual forms. The FINGRAPH system lets you define and present financial statements, schedules, and operational data in standardized graphic formats. Using FINGRAPH's sequence of charts, you can search your data and acquire a better understanding of business opportunities and problems. FINGRAPH generates new information as you update your data base, in the same standard style and scale for direct one-to-one comparison.

The graphic formats produced by the system are based on the research of Irwin M. Jarett, Ph.D., C.P.A. Standard computer graphic techniques use the mind's ability to remember visual patterns and to recognize changes in those patterns as they occur. The consistent presentation of patterns permits the busy executive to review massive amounts of information quickly, accurately, and with a better understanding of the relative importance of each business activity. Trends and relationships can be quickly seen and communicated with FINGRAPH.

FINGRAPH applications are numerous. The system presents financial results, quality-control data, spreadsheet analysis data, manufacturing data, marketing data, or any other performance data. With DIGITAL's DATATRIEVE or other report writers and FINGRAPH's linkage module, virtually any type of data can be easily extracted from user application files and formatted.

A version of this product is available for the VAX computer.

Price: \$2200 - \$11,300

Contact: Mark Hoffman, Vice President
(217) 793-0884

FINGRAPH CORP.
960 Clock Tower Drive
Springfield, IL 62704

Key Conversational Planning System

Operating System: CTS-300, RSX, RT-11

Keywords: • Inventory • Process control • Scheduling
• Simulation

This interactive system, embodying linear and nonlinear programming and simulation, allows the user to project time forward, optimize based on future conditions and reoptimize, and make conditional changes. Major areas of application are logistics, scheduling, blending, raw material selection, process optimization, purchase and sales option selection, and inventory tracking. The Inventory Exploitation options allow a user to track tank compositions, volumes, and costs through time to compute the best inventory allocation for blending, shipping, receiving, and processing.

Key has 100- to 500-row LP solving capability, a matrix generator, and a report writer, as well as the ability to simulate process change impacts on downstream inventory through time. Scrolling of data tables and reports is standard. Interactive data changing and data entry speed the solution process.

A version of this product is available for the VAX computer.

Price: \$23,750 - \$32,000

Contact: W. G. Welter
(713) 373-1905

ADVANCED MANAGEMENT TECHNOLOGIES
Box 71

Cypress, TX 77429

L/P (Labor Performance), MCBA, Inc.

Operating System: CTS-300, RSTS, RT-11

Keywords: • Data entry • Employment • Payroll
• Statistics

L/P helps identify productivity problems and improve labor use. The program permits easy, efficient entry, tracking, editing, and reporting of employee labor performance statistics and earnings and monitors the accuracy of data posted to MCBA's Payroll package.

The package accesses all features through convenient menus, allows reports to be optionally spooled for display or later printing, provides for multiple companies, and controls access to data with a security system. L/P provides for centralized data entry of labor transactions. Labor can be broken into direct and indirect status. The program generates payroll attendance records for calculating payroll and provides for incentive pay. L/P supports clock card entry and editing and prints the Labor Performance Report, showing an analysis of each employee's and foreman's performance and productivity. The program reports on salaried employees as well as on incentive earnings, supports crew labor reporting, and provides for the entry of regular, overtime, and double-time wages.

L/P interfaces with MCBA's Payroll (PR), Shop Floor Control (SFC), Job Costing (J/C), Standard Product Routing (SPR), and Inventory Management (I/M) packages.

A version of this product is available for the VAX computer.

Price: \$2500 - \$4000

Contact: Sales Representative
(818) 957-2900

MCBA, INC.

2441 Honolulu Avenue

Montrose, CA 91020

Management Case Studies

Operating System: RSTS

Keywords: • Project management • Simulation

Memory required: 8K.

These 12 BASIC-PLUS programs illustrate business management operations and are based on examples from the book *Computer Augmented Cases in Operations and Logistics Management* by William L. Berry and D. Clay Whyback, published by South-Western Publishing Company. The programs included simulate the operations of seven companies. DECUS number 11-56.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

MANEX (Manpower Expenditure Recording)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Billing • Cost accounting • Employment
• Personnel

This system provides control and analysis of hours booked to projects and overheads within a company and can be applied in any project- or cost center-oriented organization. The principal input document is a weekly time sheet prepared by each person. A range of reports can be

generated, giving the weekly and cumulative hour totals by project, overhead, section, activity, and staff agency. In addition, project billing and department costing reports can be produced.

This easy-to-use interactive system with many on-line data checks to minimize errors contains an integral backup program that provides file security and passwords to restrict access to sensitive information. The MANEX coding scheme can be tailored to codes already in use as part of an implementation charge.

Project Software has subsidiaries and distributors in the United Kingdom, United States, South Africa, Australia, and other parts of the world. In the United States, contact John Gillespie (212) 624-2587, Project Software Inc., 257 Hicks Street, Brooklyn, NY 11201.

A version of this product is available for the VAX computer.

Price: £1500 - £3000

Contact: Martin Barnes, Director
061-439 6639 or Telex: 666650

PROJECT SOFTWARE LTD.

Foden Lane, Woodford

Stockport, Cheshire SK7 1PT

United Kingdom

MAPPS (Management and Project Planning System)

Operating System: RSX

Keywords: • Project management • Report writer
• Scheduling

MAPPS is a management and planning control tool. Input has been simplified for user ease. The program features user-friendly operating procedures. The user has extensive control over the output reports. A unique Select-Sort-Report procedure permits use of more than 27 attributes for selecting data and sorts output in more than 26 ways for more than 28 report formats. Complete user control over the selection and structuring of reports gives this program unlimited flexibility for the decision-making manager. Great success in both use and reporting has been achieved by users with little prior networking experience.

The user can specify problem size and variables to permit efficient use of disk storage space. The program analyzes any arrow or precedence network of up to 32,000 activities. Activities can be scheduled for 1 to 7 work days a week. The day of the week that the activity starts and stops can also be specified. Multiple calendars are permitted. Precedence networking permits lag scheduling, which simplifies event scheduling. The system also features event data constraints of

"Not Later Than," "Not Earlier Than," or "On" user-specified dates. The program can schedule up to 8000 project days. The user may specify an unlimited number of holidays.

The program permits cost specification for each activity, with reports on both estimated and actual values. With field reports based on updated information, the system can be used to provide a variety of management reports comparing initial information to upgraded actual information. A full audit trail of all changes and up to 14 pages of text are part of every update.

The system has an optional utility with complete screen and plotter graphics. Cash flow plots, resource usage plots, and network logic can be displayed on the screen, on the printer, or on the plotter. The plotter produces multicolored plots.

A version of this product is available for the VAX computer.

Price: \$65,000

Contact: Neal B. Mitchell III
(617) 366-0800

MITCHELL MANAGEMENT SYSTEMS, INC.
2000 West Park Drive
Westboro, MA 01581

MARK III Management System

Operating System: RSX

Keywords: • Financial planning • Graphics
• Project management • Scheduling

This comprehensive project planning, scheduling, and cost control management system produces MARK III Schedule Charts and MARK III Resource Graphs. Each output is easy to read and may be custom tailored. Comprehensive and complete project planning is simplified, timely, and accurate. Detail, selective, or summary schedules; resource allocations; and cost requirements are quickly developed and automatically interrelated. Schedule progress, resource consumption, cost commitments or expenditure, earned value, and variance from plan are computer tracked and highlighted for effective management control and visibility. Schedule and cost inputs and outputs are highly flexible. Through MARK III's direct, hands-on use, managers can work with all key program variables.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: F. M. Kavanagh
(818) 782-2900

PROGRAM CONTROL CORP.

7120 Hayvenhurst Avenue, Hathaway Building, Suite 401
Van Nuys, CA 91406

Membership

Operating System: RSTS

Keywords: • Data base management • Mailing lists
• Recruiting • Report writer

This highly flexible membership system permits each organization to develop a system appropriate to its needs. The system combines routine membership requirements with the latest word and data processing technologies, permitting easy access to data and providing for the dynamic data processing needs of the organization. Because of the variations among membership organizations, the tools provided quickly customize features needed for membership. The system includes data base management, membership mailing lists, dues accounting, conferences and annual meetings, exhibition management, and word processing.

No longer do you have to use entry and display screens planned for other requirements. Furthermore, new requirements that occur after system installation do not necessitate calling for programming assistance. The system can be expanded by adding new data elements to the data dictionary.

Each time new data elements are added or changed, the data base management system automatically adjusts the files. Existing data entry and display screens are edited in minutes, permitting immediate access to new information. Similarly, existing reports can be edited quickly.

A version of this product is available for the VAX computer.

Price: \$3000 - \$10,000/module

Contact: E. Jackson Smith
(301) 296-9032

SMITH, ABBOTT, AND COMPANY, INC.
300 E. Joppa Road
Baltimore, MD 21204

PAC I®

Operating System: RSTS, RSX

Keywords: • Project management • Scheduling • Simulation

This automated network scheduling and budgeting system uses CPM/PERT techniques that can be installed in 10 minutes. Productive planning can start after one day's training. PAC I may be used to plan an entire project, activities of a project in certain categories, activities within a specified time window, and so on. With PAC I, the project manager can decide on courses of action before work begins and, as work proceeds, respond to unexpected developments with new schedules. Progress information can be reported in any cycle. PAC I is easy to use and provides a project manager with total flexibility, so that information can be gathered and/or adjusted at any time. PAC I

documentation includes a user reference manual, a printer graphics/report writer technical manual, and a technical manual. One day of installation support and training is included.

PAC II includes the basic system, an interactive report writer, and a graphics option.

Price: \$9750

Contact: Tom Kenny, Director of Marketing
(215) 265-1550

AGS MANAGEMENT SYSTEMS, INC.
880 First Avenue
King of Prussia, PA 19406

PERT-PAC

Operating System: RSTS

Keywords: • Project management • Scheduling

Using a combination of CP/M and PERT techniques, PERT-PAC is enhanced by the features of automatic updating and rescheduling. PERT-PAC has found wide acceptance in industries ranging from heavy construction to research establishments and from shipbuilding to software development control.

PERT-PAC gives management fingertip control of all aspects of a project's schedule. The on-line editor is easy to use for developing and updating project activities. System output typically includes milestone schedules, baseline slippages, bar charts, and various sorted and selected activity lists. Resource loading and leveling functions are available by using the ALLOCATOR subprogram.

PERT-PAC gives much more than computation of critical paths, slack times, and start and finish dates. This multifaceted system allows ease and flexibility for data input and a myriad of options for listing and reporting.

- User features include fast and easy network development, use of Micronet library options, automated progress assessment and network updating, error detection, diagnostics, on-line help, and graphics output.
- Technical features include an unlimited number of projects for each system, activities for each project, and relationships for each activity. Additional features include I-J node notation, processing of Micronet (super-subnets) and special activities, and direct controlled access to WORK-PAC and MAT-PAC.
- Project features and reporting capabilities include special calendar adjustment and Moslem work week options, resource loading and leveling for automatic, even distribution of limited resources, summary reporting for maximum management visibility, selective

detail reporting generated to any level of interest, baseline schedule variance reporting to measure relative scheduling performance, and critical-activity reporting.

A version of this product is available for the VAX computer.

Price: \$11,500 - \$30,000

Contact: Frank Weston
(301) 263-8593

SPAR ASSOCIATES
927 West Street
Annapolis, MD 21401

PMM/MBS Job Cost System

Operating System: CTS-300, RSTS, RT-11

Keywords: • Cost accounting • Project management
• Scheduling

This system records job cost information in a form that facilitates management analysis. The data base retains summary contract information in the job master file and permits the breakdown of the job into major segments or phases. Each phase is divided into component steps or tasks. In each of those areas, the system provides budgeted or estimated cost and price/fee figures and actual cost accumulations for the current period, year to date, and job to date. A variety of fee-earned/revenue-recognition methods and the ability to record job billings are included.

The tasks provide the ability to compute percent completely, using several methods. The individual task percentage completions are then aggregated to present a summary completion estimate for the entire job.

The cost codes allow standard cost and price/fee rates for all common cost elements of a job, such as labor and material types. The system also allows overriding the standard rates or entering cost elements not set up on the cost codes data set.

A direct interface into our General Ledger, Accounts Payable, and Payroll systems is available.

Price: \$4000

Contact: Victor Goldberg
(212) 872-7732

PEAT, MARWICK, MITCHELL & CO.
345 Park Avenue
New York, NY 10154

Practice Management

Operating System: CTS-300, RT-11

Keywords: • Accounts receivable • Billing • Scheduling

This system for firms that require a detailed breakdown of time and billing information allows the user to divide a client's work in process into particular matters or engagements. Many accountants use the Practice Management system to process time and billing for some of their attorney clients, making the Practice Management system a source of revenue, as well as a tool for managing the accounting firm.

The Practice Management system has all the features of the Time and Billing system, as well as multiple-office breakdown capability; 4-digit matter number and 10-digit user-definable sort codes; 999 user-definable billing codes; open-item accounts receivable; automatic invoicing capability — eight invoice formats; statement preparation; production reports and work-in-process reports by client, by matter, or by employee; transaction history file for future scheduling; automatic retainer billing, realization rate, and percentage report; and four billing adjustment allocation methods.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Bob Sprowls
(904) 434-2685

DIGITAL SYSTEMS, A DIV. OF UCCEL
114 E. Gregory Street
Pensacola, FL 32501

PREMINI

Operating System: RSTS, RSX

Keywords: • Engineering • Project management • Scheduling

Distribution medium: 9-track 1600 bpi magnetic tape.

This powerful and comprehensive critical path-based project management tool applies to almost any high-visibility/high-risk project. PREMINI performs all normal critical-path calculations with single or multiple calendar specifications. Hourly time units can be specified for maintenance, outage, start-up, or commissioning projects. Free Float can be automatically slipped under user control to improve scheduling or cash flow results. The features and algorithms of PREMINI are particularly effective in the resource-constrained scheduling mode. For example, resources need not be allocated uniformly over an activity duration but may be specified in a nonlinear form. Although very powerful, PREMINI is easy to both learn and use.

A versatile report generator is provided. Users can easily and quickly write their own reports and also modify standard reports. The report generator can produce bar charts and listings more than 200 characters wide. Graphics options include user-definable bar charts and network logic diagrams.

The "VTIN" input option (for VAX only) permits the user to easily define menus and input screens for PREMINI, including the specification of such attributes as field names, defaults, and on-line help text.

A version of this product is available for the VAX computer.

Price: \$36,000 – \$56,000

Contact: Jack Way

(416) 488-3088

K & H COMPUTER SYSTEMS (CANADA) LTD.

Box 371, Station K

Toronto, Ontario M4P 2G7

Canada

Project Delta, Section C: Business

Operating System: RSTS

Keywords: • Accounting • Education • Financial analysis

Memory required: 8K.

Section C contains business programs. DECSN is a management-decision simulation for 10 to 60 participants. MANAGE is a management-decision simulation for three teams. DYNPRO is a dynamic programming model and business simulation tool. DEPCOM provides four methods for calculating depreciation. ANNUIT performs annuity analysis. EQUITY computes cost of equity capital. INSTMT produces an income statement. LENDER performs simple loan analysis. TRUINT computes true annual interest rate. LESSEE compares lease with purchase. SALES prints a sales commission report. MKBUY performs make versus buy analysis. MORGAG performs mortgage analysis. GNPSUM provides a gross national product summary. EXDRSK performs extended-risk analysis. STKRTN writes a stock-return report. STKSMO is an exponential smoothing stock guide. STKVAL writes a stock-value report. STKINC analyzes a stock merger incentive. BNDPRC performs bond-price analysis. BNDYLD performs bond-yield analysis. BNKRSV performs bank-reserve calculations. CAPINV performs capital-investment analysis. EXSMOO is an exponential smoothing on price data. BALSHT is a balance sheet and income statement. INACNT shows national income and product accounts. INOUT analyzes interindustry product flow. BUDGET is a department manager's budgeting program. DECUS number 11-7.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

RISKAN1/RISKAN2 (Risk Analysis — General/Risk Analysis —Accounting)

Operating System: RSTS, RSX, RT-11

Keywords: • Accounting • Decision support • Simulation
• Spreadsheets

RISKAN1 provides a business executive with simulation capabilities and analytical information about strategic planning and/or manufacturing (for example, tolerance analysis). Specifically, the program allows the business executive to analyze and/or compute the expected risk of a proposed product line diversification or company acquisition in terms of the size of the market, the size of the company's investment commitment, and a perceived level of competition — either none or an estimated market share of each competitor — before and after the proposed business venture. The decision maker can also look at manufacturing concerns such as material planning or machining operations in a quality-control operation. The output of the analysis may include an estimate of the numerical risk involved, accompanied by an appropriate recommendation about whether to diversify, and various risk profiles for additional information.

Using this business planning tool, the executive can input a data file and simulate what-if hypotheses concerning, for example, the chances of a successful new-product introduction in a highly competitive marketplace or how the chance of success in a specific market varies with the number of competitors or market share. Graphical output is available to illustrate in an analytical fashion some such relationships. RISKAN1 allows the business executive to simulate the decision-making process under conditions of uncertainty.

In addition, RISKAN2 provides detailed risk analyses for standard spreadsheet-type accounting (financial analyses), including risk profiles.

The price is a 1-time license fee.

A version of this product is available for the VAX computer.

Price: \$5000 - \$7500

Contact: Jon Prescott

(619) 247-7219

J & S ASSOCIATES

13407 Quapaw Road

Apple Valley, CA 92307

Telepro/RSX-11M**Operating System:** RSX**Keywords:** • Cost accounting • Data collection • Report writer
• Telecommunications**Distribution medium:** RL02.

This management tool for controlling telecommunication costs collects and prices outgoing telephone call data received from a Bell Dimension PBX® with an attached Station Message Detail Recorder (SMDR) unit. The priced data is used to generate cost allocation and traffic management reports, which provide the basis for evaluating the usage and adequacy of the existing telephone network.

Telepro features include:

- **Data collection** — Telepro/RSX-11M can accept call data directly from the PBX/SMDR unit through an EIA RS232C interface. The call data consists of three record types: date records, call records, and monitor records.
- **Call pricing** — Telephone calls are priced according to industry-standard algorithms. Local flat rate, message unit, direct distance dialed, wide-area telephone service, foreign exchange, and tie-line calls are priced. Discounts are applied by time and day of week.
- **Cost allocation reports** — These reports assign the cost of telephone service to the organizational entities incurring them for the purposes of analysis and control. Telepro recognizes four organizational levels: facility, division, department, and extension. In addition, cost allocation reports can be generated by account code and authorization code.
- **Traffic management reports** — These reports provide the basis for traffic studies to determine the telephone system's use and performance. The reports develop traffic distributions by time, cost, duration, and occurrence and analyze the use of automatic route selection, call queuing, and blockage.
- **User interface** — The menu-driven user interface provides extensive HELP facilities. Documentation includes an installation guide, a user's guide, and an installation certification procedure.

Bell Dimension PBX® is a registered trademark of American Telephone and Telegraph Co.

Refer to SPD #A3.13.00 when requesting further information on this product from your local DIGITAL sales office.

Price: \$3500 — \$7700**Contact:** Consult your local DIGITAL sales office
(see Introduction).

Time and Billing

Operating System: CTS-300, RT-11

Keywords: • Accounts receivable • Billing • Cost accounting
• Scheduling

The Time and Billing system establishes a flexible and comprehensive information system that provides management controls and analytical reports to evaluate the time spent on a client's work. The heart of the system is the billing code file. Up to 99 codes may be grouped into 16 major categories by billable and nonbillable time.

The system provides four entry journals — time and expense, billing, cash receipts, and file maintenance; work-in-process reports by client or employee; gross profit by client; accumulation of year-to-date billing and adjustments; work-in-process review sheet; billed and unbilled receivables; aged accounts receivable reports by client or employee; client billing and billing code analyses; productivity, time and expense, and billing analyses by employee; automatic monthly A/R statements; and monthly charge capability.

Price: \$2350

Contact: Bob Sprowls
(904) 434-2685

DIGITAL SYSTEMS, A DIV. OF UCCEL
114 E. Gregory Street
Pensacola, FL 32501

Time Management

Operating System: CTS-300, RSX, RT-11

Keywords: • Billing • Cost accounting • Report writer

This program can interface with Digital Systems' Practice Management.

Time Management allows a firm to track the actual time spent, as compared to the time budgeted, for a client or an engagement. Time Management also allows a firm to review time spent last year for a month or a year at the client, engagement, employee, or code level.

The system provides automatic accumulation of time, when interfaced with Practice Management; reporting by month or year; budgeting capabilities; and predefined as well as user-defined reports.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Bob Sprowls
(904) 434-2685

DIGITAL SYSTEMS, A DIV. OF UCCEL
114 E. Gregory Street
Pensacola, FL 32501

TOPMAN (Total Planning and Management), Version 2.0

Operating System: RSX

Keywords: • Graphics • Project management • Report writer
• Scheduling

This system relieves project and functional managers of time-consuming planning and record-keeping tasks through calendar-based graphic and straightforward reports. Great flexibility and a variety of reports are available for project, division, subdivision, or individual use. TOPMAN handles multiproject networking.

- Initial planning: Project staff sets up a plan, including an activity list, start dates or dependence on other activities, span times, estimated resources required, milestones, and department or individual responsibility assignments.
- TOPMAN generates Gantt chart plots to show activity descriptions, span times, critical path, dependencies, milestones, and responsibility assignments. Budgeted resource data is displayed in distributed or cumulative graphic plots and printer reports.
- Updating: Work progress, resource expenditures, exception reporting criteria, and/or plan amendments are entered by the user.

TOPMAN generates bar chart, graphic plot, and printer reports to reflect work achieved in activities, probable complete dates, slack, a recalculated critical path, resources expended, dollars required to complete, earned value, cost trend, cost variance, and exception reports. Exceptional flexibility is afforded by SCOUT, our interactive screen-oriented tabular report generator.

Combined with our Interactive TOPMAN Preprocessor (ITP), TOPMAN is very "user friendly." ITP steps the user through a series of screen-displayed forms to build a project schedule plan and budget. As work proceeds and costs are incurred, prompts lead the user through updating and replanning cycles to help the project manager control the project.

A version of this product is available for the VAX computer.

Price: \$20,000 – \$30,000

Contact: G. H. Marlow, President
(215) 348-1200

APPLIED MANAGEMENT METHODS, INC.
201 N. Broad Street
Doylestown, PA 18901

VUE

Operating System: RSTS, RSX, RT-11

Keywords: • Construction • Project management
• Scheduling

This interactive project management system uses the critical-path method to spotlight activities that need to be completed on schedule. Up to 3000 activities can be tracked for each project, with almost unlimited activities available through the multiproject option.

VUE is easy to use and menu driven, requiring minimal user training. The project manager can modify information, see the project from several perspectives, generate what-if scenarios, and respond to unexpected developments with new schedules and strategies.

VUE's reports show the impact of changes in timing, cost, and resources on activities and on the overall project. Those reports cover the entire project, the activities of one team or department, or groups of activities. VUE's standard report selection includes network diagram, bar chart, schedule, progress, activity times, predecessor, node schedule, cost, resource, and current work.

Available options for VUE include multiproject capability, plotter graphics output, time-scaled network diagram, and a custom report generator.

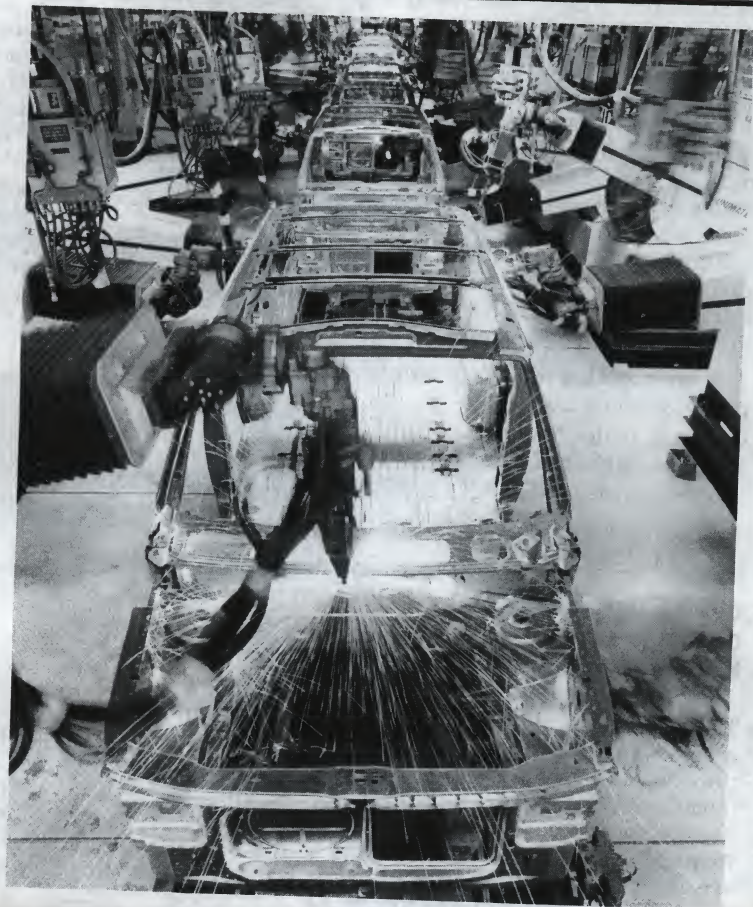
A version of this product is available for the VAX computer.

Price: \$16,000 - \$26,000

Contact: John Enyedy
(408) 257-7700

NATIONAL INFORMATION SYSTEMS
20370 Town Center Lane, Suite 130
Cupertino, CA 95014

Manufacturing



Black Star Publishing Company/Andrew Sacks

2/D Scrapsaver

Operating System: RSX

Keywords: • Bill of materials • Metals • Production control
• Shop floor control

Distribution media: magnetic tape, RL02, RX02.

This system is the industry's leading software package for solving 2-dimensional cutting stock problems in the metal fabrication, paper and board, lumber, and glass industries. The 2/D Scrapsaver uses a time-tested proprietary algorithm and generates numerical control tapes or DNC files for the Warner & Swasey Optishear family as well as other N/C shears. Options exist for manual shearing.

The 2/D Scrapsaver provides rigid control over scrap, uses a fast algorithm that explicitly considers a variety of operational constraints, accommodates mandatory and optional orders with or without penalty costs, allows simultaneous scheduling of items with and without specified grain orientation, evaluates the use of alternative master size sheets (panels), simultaneously schedules multiple master sizes based on variable cost and availability, sequences patterns to reduce in-process time for parts, provides for exact order fulfillment, interfaces easily to preprocessors for data input or post-processors for specialized reporting and flexible machining systems integration, and handles up to 100 part orders, depending on the make and model of computer.

A version of this product is available for the VAX computer.

Price: \$16,000 - \$22,500

Contact: Bruce Michel
(513) 874-6464

MANAGEMENT DECISIONS DEVELOPMENT CORP.
7209 Dixie Highway
Fairfield, OH 45014

6600 Plant Management System

Operating System: RSX

Keywords: • Bill of materials • Inventory
• Production control • Quality control

This series of modules is designed to aid in the management of food processing plants. A formulation module uses linear programming to provide least-cost formulation of food products. A quality control module uses statistical and graphical techniques to track various quality control data. Product costing permits the application of cost items to develop a total product cost inclusive of supplies, labor, and overhead. A production scheduling module is used for the entry and development of production schedules and inventory programs.

Price: \$17,500 - \$35,000

Contact: T. Brient Mayfield
(615) 691-2041

COMPUTER CONCEPTS CORP.
9041 Executive Park Drive, Bldg. 500
Knoxville, TN 37923

A-CLASS

Operating System: CTS-300, DSM, IAS, MicroPower/Pascal,
RSTS, RSX, RT-11, UCSD p-System™

Keywords: • Data base management • Information management
• Production control

This system provides classification and coding systems for group technology, design retrieval, and computer-aided process planning. Computer graphics systems require classified design libraries to provide total recall of existing designs for design research. A-CLASS is modular to provide for classified files of raw materials, commercial parts, manufactured piece-parts, assemblies and finished products, tooling, jigs and fixtures, and machine tools and capital equipment. Computer-aided process planning systems use A-CLASS class codes for structured files of process plans and generative process planning data.

Extended manufacturing data base systems use A-CLASS multicode for part family manufacturing and group technology analysis. Use of class codes for FMS planning provides maximum visibility of opportunities for integrated manufacturing systems and optimum cell design. A-CLASS can be used to implement and upgrade MICLASS and MULTIGROUP systems and is ideal for programming Brigham Young D-CLASS file handlers. N/C programming uses A-CLASS class codes to develop master family programs for families of similar parts. Integrating A-CLASS class codes with MRP systems increases production by grouping parts into families for common processing using similar setups and tooling.

Turnkey applications are available on fixed-fee development contracts.

UCSD p-System™ is a trademark of University of California Regents.

A version of this product is available for the VAX computer.

Price: \$5000 - \$150,000

Contact: Giles E. Lovelace
(803) 577-7838

LOVELACE LAWRENCE & CO.
23 Broad Street
Charleston, SC 29401

ABCON (Automated Batch Control)

Operating System: RSX

Keywords: • Graphics • Pharmaceutical • Process control
• Real time

This batch control package provides a simple modularized approach to batch process control and includes recipe building and modification, step sequencing, and process function activation. ABCON is interfaced to the process through programmable controllers or other suitable I/O hardware. The package permits automatic, semiautomatic, and manual execution of steps; allows monitoring of multiple steps for proper cutoff; and provides accurate reports on each batch.

A version of this product is available for the VAX computer.

Price: \$25,000 - \$60,000

Contact: Jorge Llansa

(713) 496-3220

SETPOINT, INC.

950 Threadneedle

Houston, TX 77079

ACUITY Bill of Materials Processor

Operating System: UNIX* (System III, System V, Version 7)

Keywords: • Bill of materials • Inventory • Purchasing
• Shop floor control

ACUITY Bill of Materials Processor keeps track of all the raw materials, parts, and subassemblies that are used to create a finished product. The processor interfaces to the ACUITY Customer Order Processing and ACUITY Inventory Management systems. The system allows full product-structure file maintenance with user-assigned sequence of components. Quantity per parent can be specified to four decimal places and can be negative to create modular bills. Scrap and shrinkage can be specified. New bills can be created by copying parts of old ones. The system allows obsolete, forecasted/planned, and active bills with up to 12 levels of subassemblies and replaces all occurrences of an obsolete item with a replacement part. The system prints a single-level bill of materials report, single-level where-used report, indented bill of materials report, and end-item where-used report.

Designed for companies ranging from 5 to 2000 employees, ACUITY Financial Software offers sophisticated audit trails, security by application and by user, local printer support, and TTY handler for Packet Switched Networks (such as TELENET). Computer Cognition supports end users with a 1-year warranty, with maintenance available thereafter. Installation, training, and customization are available.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$1500 – \$9500

Contact: Sherrell Harper
(619) 474-2010

COMPUTER COGNITION

225 W. 30th Street

National City, CA 92050

ADACS (Advanced Distribution Acquisition and Control System)

Operating System: RSX

Keywords: • Process control • Real time • Signal processing

ADACS monitors and controls industrial processes in real time. The ADACS package contains the software to read signals; convert signals to engineering units (EUs); communicate the values to operating, engineering, and management personnel; and compute and implement control actions. The package includes the capability for on-line modification of process parameters and control actions.

ADACS has been applied in continuous chemical and petrochemical plant control environments, power utility monitoring, and SCADA applications involving remote terminal units (RTUs) spread over large geographical areas.

A version of this product is available for the VAX computer.

Price: \$25,000 – \$120,000

Contact: Moustafa Nazif
(713) 486-1712

MODULAR DATA SYSTEMS, INC.

17250 El Camino Real

Houston, TX 77058

AIM (Automated Industrial Monitoring)

Operating System: RSX

Keywords: • Data collection • Energy
• Facilities management • Process control

AIM is a field-proven standard software product used to monitor and control industrial processes. AIM is a plant automation and supervisory process control system that scans, alarms, trends, logs, and provides closed-loop control of the industrial process.

The system is defined by using a fill-in-the-blanks language that specifies plant inputs, control outputs, and any special calculations and logic procedures. The system provides user-created color graphics displays and interacts with operator keyboard consoles to allow plant operator control and easy access to plant data. Optional software packages are available to further enhance AIM's capabilities.

For users requiring special applications, AIM provides FORTRAN subroutines to access the complete data base, thus allowing interaction with standard processing. Since AIM makes no modification to the operating systems, benefits are realized by its upward compatibility to DIGITAL's current operating system level.

AIM has been applied in chemical plants, refineries, steel plants, water treatment and manufacturing facilities, and laboratories.

A version of this product is available for the VAX computer.

Price: \$36,000 - \$72,000

Contact: Gerald D. Newman
(713) 789-8880

BILES & ASSOCIATES
6161 Savoy Drive, Suite 500
Houston, TX 77036

AIM Batch (Automated Industrial Monitoring)

Operating System: RSX

Keywords: • Chemical • Data collection • Process control
• Real time

AIM Batch is a field-proven standard software product used to monitor and control continuous, batch, or semicontinuous industrial processes. AIM Batch is a plant automation and supervisory process control system that scans, alarms, trends, logs, and provides closed-loop control of the process.

AIM Batch uses a simple fill-in-the-blanks language and CRT-prompted communications to allow nonprogrammer process engineers to easily define and modify batch sequences and recipes. The system provides user-created color graphics displays and interacts with operator keyboard consoles to allow plant operator control and access to plant data. Optional software packages are available to further enhance AIM Batch's capabilities.

For users requiring special applications, AIM Batch provides FORTRAN subroutines to access the complete data base, thus allowing interaction with standard processing. Since AIM Batch makes no modification to the operating systems, benefits are realized by its upward compatibility to DIGITAL's current operating system level.

AIM has been applied in chemical plants, refineries, steel plants, water treatment and manufacturing facilities, and laboratories.

A version of this product is available for the VAX computer.

Price: \$45,000 - \$90,000

Contact: Gerald D. Newman
(713) 789-8880

BILES & ASSOCIATES
6161 Savoy Drive, Suite 500
Houston, TX 77036

AIMS (Advanced Integrated Manufacturing Systems)

Operating System: UNIX* (System V)

Keywords: • Bill of materials • Inventory • Scheduling
• Shop floor control

AIMS is an integrated manufacturing management information system. The package is designed in modules and can be installed as a total system or piecemeal; other modules may be added as required.

Designed to run on microcomputers (MicroPDP-11, MicroVAX, and Rainbow, for example) in small to medium-size operations, the software is available for a variety of operating systems.

Free updates, a toll-free support line, on-site installation and training, and limited customization are provided. A comprehensive software maintenance program is available.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$6000 - \$26,000

Contact: Ram Todatry
(312) 850-7244 or (800) 323-6885

MARTEK, INC.
825 N. Cass Avenue
Westmont, IL 60559

Allen-Bradley Translator Software

Operating System: RSX

Keywords: • Programming tools • Translators

Distribution medium: 800/1600 bpi magnetic tape.

This software provides users of Allen-Bradley programmable controllers with a means of documenting programmable controller logic by merging explanatory text comments with ladder diagram displays. Complete cross-reference listings, identification of data table contents, alphanumeric sortings of mnemonics, and graphic representations of I/O usage are also included with each product. When the Translator Software is used with NET Communication Software, the user can up-load and down-load programmable controller programs over the Allen-Bradley Data Highway.

A version of this product is available for the VAX computer.

Price: \$6700 - \$8040

Contact: Joe Walker, Senior Product Engineer
(216) 449-6700 ext. 3810
ALLEN-BRADLEY CO.
747 Alpha Drive
Highland Heights, OH 44143

AMS (Apparel Manufacturing System)

Operating System: RSX, RT-11

Keywords: • Accounting • Order entry • Production control
• Word processing

AMS is an integrated system that manages apparel manufacturing activity, including order entry, cut and sold planning, inventory control, sales analysis, and manufacturing cut control. AMS also manages accounting functions, including billing, accounts receivable, purchasing, accounts payable, general ledger, financial reporting, and word processing.

Price: \$9000 - \$18,000

Contact: Andy Cherry, Marketing
(201) 348-6688

EXTENDED TECHNOLOGIES CORP.
1023 Boulevard East
Weehawken, NJ 07087

APPS/2 (Automatic Part Programming System, Version 2)

Operating System: RSX, RT-11

Keywords: • CAD/CAM

APPS/2 simplifies the preparation of part programs for NC and CNC machine tools. The core system uses input from a digitizer to define the geometry of complex contour shapes. That set of basic geometric data is then smoothed and analyzed by the system software to determine the arc and straight-line components of the shape. A postprocessor translates the arcs and straight lines into the command format that will drive the desired machine tool. Any 2-dimensional cutting operation is a potential application.

Although developed primarily for contoured nondimensioned shapes, APPS/2 also digitizes straight lines, arcs, and skips by specifying endpoints rather than by tracing. That form of entry is called point-to-point mode. A third mode provides for the direct keyboard entry of data when dimensions are well defined. All three entry modes may be used interchangeably on a single piece.

Software (\$15,000) includes one postprocessor and is maintained free for two years, including updates. In general, the digitizer and the digitizer interface board are purchased with the software package.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$31,500

Contact: Robert P. Whitten, President
(617) 655-6610

ALDEN COMPUTER SYSTEMS CORP.
27 Strathmore Road
Natick, MA 01760

AUTO-BOP

Operating System: RSX

Keywords: • Data collection • Inventory • Metals
• Process control

AUTO-BOP is a complete oxygen control system. Application functions contained in the AUTO-BOP package are charge design, alloy additions, optimum heat assignment, heat summary log, data communications, operating data analysis, programmable controllers, monitor and alarming, and terminal manager.

A version of this product is available for the VAX computer.

Price: \$25,000 – \$50,000

Contact: David L. Schroeder
(412) 776-3130

PROCESS CORP.
163 Thorn Hill Road
Warrendale, PA 15086

AUTO-MET and Q-VAR

Operating System: RSX

Keywords: • Data collection • Electrical • Metals
• Process control

AUTO-MET Materials Management and Q-VAR Energy Management application packages for electric furnace control systems contain the following application functions: alloy-addition calculation with properties correlations, charge design, purchasing model, optimum heat assignment, heat summary log, pellet feed, power input control, bath temperature, power demand, secondary metallurgical process, inventory control, monitor and alarming, data communications, operating data analysis, programmable controllers, gas demand, and terminal manager.

A version of this product is available for the VAX computer.

664 Manufacturing

Price: \$50,000 - \$75,000

Contact: David L. Schroeder
(412) 776-3130

PROCESS CORP.
163 Thorn Hill Road
Warrendale, PA 15086

Automotive Release Accounting

Operating System: CTS-300, RT-11

Keywords: • Accounting • Automotive • File transfer
• Materials handling

Distribution media: magnetic tape, RL02.

This program, written in DIBOL, automates the automotive supplier's release/shipping information with the automotive manufacturer. Releases are pulled from the automotive manufacturer's computer with autodial communications and placed on the supplier's computer. Advance shipping notices are prepared on the automotive supplier's computer and transmitted to the manufacturer's.

Key release accounting features include schedule reporting, release status inquiry, model year processing, shipment reporting, bills of lading, invoices, and history inquiry.

The Release Accounting application is table driven, in compliance with A.I.A.G standards.

Price: \$3000 - \$5000

Contact: David L. Ley
(313) 855-6181

RADLEY BUSINESS COMPUTERS
7071 Orchard Lake Road, Suite 305
W. Bloomfield, MI 48033

AWRAP (Wire Wrapping for GD Fully Automatic Machines)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • CAD/CAM • Electrical

AWRAP is an interactive program for the production of control media for the Gardner-Denver 14FV and 14FS automatic wire wrapping machines. The program, written in FORTRAN, is menu driven, so an individual needs no prior knowledge of computers or programming to achieve successful results. Data may be entered directly through the keyboard of the VDU when in the interactive mode, or the program may be interfaced to access data from a CAD-produced file.

The package also comprises a master file for the storage of geometric definitions of sockets and complete boards in constant use. The storing of standard board geometry in the master file and the format of data entry are compatible with the program WWRAP for semiautomatic wire wrapping machines.

Program features include powerful editing facilities; level assign; additional patterns; routing, using NOGO areas, channels, and routing points; manual and automatic pallet shift selected by the program; programmable dressing fingers; plot of board geometry; wrap count and wire length summary; string list or from/to input; wire grouping and choice of wiring order; and inch/metric input and output.

A version of this product is available for the VAX computer.

Price: £17,500

Contact: K. E. Cole
(0905) 53335

STAVELEY COMPUTING
Blackpole Road
Worcester WR3 8TH
England

BEDAT-11 Factory/Shop Data Collection

Operating System: RSX

Keywords: • Data collection • Process control
• Production control • Shop floor control

Distribution media: magnetic tape, RL02.

This data acquisition system is used in machine and process control, energy management, inventory control, factory data collection in serial production, and order production. The heart of the system is the multifunction industrial terminal, TB-21, which can be used as a terminal as well as a console or control center for instruments and small systems.

TB-21 uses a 16-bit microprocessor. Functions are decentralized to the terminal. As a result, integrating BEDAT-11 into existing shop floor and manufacturing systems requires little change in organization.

A version of this product is available for the VAX computer.

Price: \$2050 - \$2850

Contact: Robert L. Hirtle, Office Manager
(904) 433-7578

ATS DATA PROCESSING, INC.
1101 North 9th Avenue
Pensacola, FL 32501

BOMP-11 (Bill of Material Processor)

Operating System: CTS-300, RSX, RT-11

Keywords: • Bill of materials • Information management
• Inventory • Project management

The BOMP-11 system organizes and maintains a central information system linking product structure records with master (inventory-type) records. Single- and multilevel explosion and implosion options are provided, enabling the operator to produce listings that may be directed to the CRT or the line printer. BOMP-11 provides for full file maintenance of master and product structure records, along with audit trails of maintenance transactions.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: John T. Rasted
(203) 265-2226

SOFTWARE DYNAMICS, INC.
1000 Yale Avenue, P.O. Box 500
Wallingford, CT 06492

BOMP (Bill of Material Processor), MCBA, Inc.

Operating System: CTS-300, RSTS, RT-11

Keywords: • Bill of materials • Materials handling

BOMP is a multilevel bill of materials processor that allows full product structure maintenance and fast sort of the product structure file; provides for user-controlled product structure file reorganization; allows user-assigned sequence of components and permits specification of components' attaching operation; supports quantity for each parent to four decimals; permits specification of scrap/shrinkage; supports obsolete bills, forecasted/planning bills, and modular bills; prints/displays the single-level bill of materials, single-level where-used, indented bill of materials, indented where-used, and summarized bill of materials reports; interfaces to six other MCBA application packages; and supports security system and multicompany capabilities.

A version of this product is available for the VAX computer.

Price: \$3000 - \$4500

Contact: Sales Representative
(818) 957-2900

MCBA, INC.
2441 Honolulu Avenue
Montrose, CA 91020

C-DASS (Computer Distribution and Storage System)

Operating System: RSX

Keywords: • CAD/CAM • Networking • Production control
• Programming tools

This system stores part programs for a group of CNC machine tools and distributes those programs to individual machine tools. A terminal placed at each machine tool has access to the C-DASS and can transfer data between the C-DASS and the machine tool memories. Thus, program preparation, editing, and loading can be done from the individual terminals. With optional communication software, the entire system can be linked to a larger computer. As a further option, one can add management and control functions.

Price: \$20,000 – \$100,000

Contact: Robert P. Whitten
(617) 655-6610

ALDEN COMPUTER SYSTEMS CORP.
27 Strathmore Road
Natick, MA 01760

CAM.APT.SURF — 5-Axis Processor with Sculptured Surfaces

Operating System: RSX

Keywords: • CAD/CAM • Education • Pre- and postprocessors
• Programming tools

Memory required: 1MB.

This fully supported and enhanced capability of SSR1, SSV1, and APT IV processes sculptured surfaces and APT programs for numerically controlled (N/C) machine tools, from simple drills or lathes to the most complex 4- and 5-axis continuous-path machines. APT, written in FORTRAN, is a powerful language processor and is the industry standard. CAM.APT.SURF covers 3-dimensional and sculptured geometries plus the conventional geometric surfaces and full 5-axis APT tool control statements. A computer graphic verification of user-defined surfaces and an automatic cutter-path generation are included.

A version of this product is available for the VAX computer.

Price: \$6600 – \$12,000

Contact: John J. Nassr
(514) 697-8033

ICAM TECHNOLOGIES CORP.
1900 Sources Boulevard
Pointe Claire, Quebec H9R 4Z3
Canada

CAM.CAL2 — Advanced APT Graphics Tutorial

Operating System: RSX

Keywords: • CAD/CAM • Computer-aided instruction
• Education • Programming tools

Memory required: 1MB.

This module, more advanced than CAM.CAL1, has about four times the course content and covers the full 3-dimensional aspects of geometry and motions. CAM.CAL2 teaches APT and APT programming for NC machines by using computer-aided learning (CAL) techniques to establish the relationships among the part geometry, the tool motions/instructions, and the APT language statements. That knowledge reduces CAD/CAM system learning span time and facilitates the link between CAD and CAM functions. The system trains engineers and draftspersons before their involvement with CAD systems and is an essential base for all CAM functions, including machining.

A version of this product is available for the VAX computer.

Price: \$2400 — \$4050

Contact: John J. Nassr
(514) 697-8033

ICAM TECHNOLOGIES CORP.
1900 Sources Boulevard
Pointe Claire, Quebec H9R 4Z3
Canada

CAM.DES — 2½D CAD System

Operating System: RSX

Keywords: • CAD/CAM • Mechanical engineering
• Process control • Project management

Memory required: 1MB.

This color or monochrome CAD system, written in FORTRAN and developed for professionals in engineering, design, and drafting, improves productivity, accuracy, and engineering layout/plan/working drawing appearance. Interactive commands are incorporated in ergonomic design to make the system easy to learn and use. Engineering drawings in any size or format can be created, using features found only in more expensive systems. The user's language is in English or French.

A version of this product is available for the VAX computer.

Price: \$7125 - \$12,375

Contact: John J. Nassr

(514) 697-8033

ICAM TECHNOLOGIES CORP.

1900 Sources Boulevard

Pointe Claire, Quebec H9R 4Z3

Canada

CAM.FIVE.S — Advanced CAM Software Package of Five Systems

Operating System: RSX

Keywords: • CAD/CAM • Computer-aided instruction
• Mechanical engineering • Programming tools

Memory required: 1MB.

This system, written in FORTRAN, includes full sculptured surfaces and a 5-axis APT language processor to give the first-time user main-frame capabilities in smaller computers. CAMIVE.S teaches APT programming, allows each user to program and verify parts for any NC/CNC machines/control combination, and covers nonanalytical, 3-dimensional, and sculptured and conventional geometric surfaces. The package includes CAM.CAL2 — Advanced APT Graphics Tutorial, CAM.APT.SURF — 5-Axis APT Processor with Sculptured Surfaces, CAM.POST — Interactive Postprocessor Generator, CAM.PLOT — Tool Path Graphic Plotter, and CAM.PUNCH — Reverse/Conventional Punch Processor.

A version of this product is available for the VAX computer.

Price: \$22,445 - \$37,592

Contact: John J. Nassr

(514) 697-8033

ICAM TECHNOLOGIES CORP.

1900 Sources Boulevard

Pointe Claire, Quebec H9R 4Z3

Canada

CAM.PLOT — Tool Path Graphic Plotter

Operating System: RSX

Keywords: • CAD/CAM • Computer-aided instruction
• Education • Mechanical engineering

Memory required: 512KB.

This system, written in FORTRAN, allows the user to easily verify the accuracy and to conduct a complete analysis of the program's feed rates, geometry, and motions, reducing the cost of testing the parts before N/C production. The user views the tool motions generated by the APT program or CAD/CAM system with dynamic color graphic

plots in different modes. Full pan and zoom graphics capabilities highlight the visibility of very intricate motions for the most complex parts. In many applications, CAM.PLOT eliminates the need for hard-copy plotters. Those plotters can be produced during the plotting process if required.

A version of this product is available for the VAX computer.

Price: \$2250 – \$3375

Contact: John J. Nassr

(514) 697-8033

ICAM TECHNOLOGIES CORP.

1900 Sources Boulevard

Pointe Claire, Quebec H9R 4Z3

Canada

CAM.POST — Interactive Postprocessor Generator

Operating System: RSX

Keywords: • CAD/CAM • Computer-aided instruction
• Pre- and postprocessors • Programming tools

Memory required: 1MB.

CAM.POST, written in FORTRAN, enables unskilled users to efficiently produce, modify, and maintain postprocessors for most NC/CNC machine tool/control combination, from lathes to 5-axis continuous-path machines. CAM.POST is fully compatible with ISO 3592 CL data format and ISO 4343 postprocessor command language. This package can be used with any CAD/CAM system that provides a standard CL file data. End users quickly and economically create and update their own postprocessors.

A version of this product is available for the VAX computer.

Price: \$12,000 – \$20,000

Contact: John J. Nassr

(514) 697-8033

ICAM TECHNOLOGIES CORP.

1900 Sources Boulevard

Pointe Claire, Quebec H9R 4Z3

Canada

CAM.PUNCH — Reverse/Conventional Punch Processor

Operating System: RSX

Keywords: • Aeronautics/aerospace • CAD/CAM
• Mechanical engineering • Programming tools

Memory required: 100KB.

This flexible N/C tape processing and management system, written in FORTRAN, offers ASCII and EIA conversion features and a powerful editor permitting manual tape editing. The unique reverse-punching sequence capability is a time-saving and safety feature eliminating otherwise mandatory tape rewinding. CAM.PUNCH offers direct access to a main library containing tapes generated by the system as well as tapes foreign to the system, which may be read into the library through the tape reader.

A version of this product is available for the VAX computer.

Price: \$1688 – \$2344

Contact: John J. Nassr
(514) 697-8033

ICAM TECHNOLOGIES CORP.
1900 Sources Boulevard
Pointe Claire, Quebec H9R 4Z3
Canada

CBS (Cut-Bun-Sew Garment Manufacturing System)

Operating System: CTS-300, RSTS, RSX

Keywords: • Inventory • Process control • Production control
• Shop floor control

This multiterminal multitasking garment manufacturing system consists of major systems to provide production control and fabric status for the cut and sew operator. The systems, designed to be installed individually and as an integrated package, interface with other accounting, order entry, inventory, and payroll systems.

- The Cut System module, for fast, accurate entry of a cutting order, allows both menu inquiry and printed reports of cuts entered by cut number and cut status. This system also provides timely and accurate data, leading to more efficient use of plant capacity.
- The Fabric System module maintains a constant status of fabric received, issued, cut, on order, available to issue, and on hand by manufacturer, description, design, and color. Information is available through menu inquiry.
- The Style Standardization System module provides the manufacturer with a standard method of manufacturing a particular item. The module allows the user to enter and formulate time study and engineering data for each manufacturing operation. Menu inquiry of the style master file and various reports provide data to control costs, such as the Direct Labor Report by Style.
- The Marker System module keeps an active inventory of each marker in house by style and model.
- The Bundle System module allows production control to input the request from the spread and cut department for bundle tickets by category and special instruction.

Options for CBS include Piece Pay System, Standard to Actual Production, Actual Salary Paid versus Production Salary Achieved, Machine Down Time, Quality Control versus Production Efficiency, and Marker Efficiency.

Other optional modules are General Ledger, Accounts Payable, Accounts Receivable, Inventory Control, Order Entry/Invoicing, and Payroll.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$12,500

Contact: Jim Baker, President
(404) 256-3067

AMERICAN DIGITAL PRODUCTS CORP.
5775B Glenridge Drive, Suite 320
Atlanta, GA 30083

CHEM-COST

Operating System: RT-11

Keywords: • Calculation aids • Chemical • Cost accounting
• Pharmaceutical

This complete menu-driven formula-processing system stores formulas for hundreds of chemical and pharmaceutical products with detailed cost calculations and mixing instructions. The system also prints batch work sheets with required quantities for all raw materials in a given formula.

The system allows you to enter, store, retrieve, and print formulas, quotes, and product cost sheets. Product cost sheets may be printed by product, customer, or affected component. The system automatically interfaces to inventory, work orders, invoicing, and purchasing. Thus, a change in any component automatically updates all affected products. Plus, an audit trail of all cost and price changes is provided.

Benefits of the system include a 75% reduction in the amount of data to be entered, a reduction of the time and labor needed for product costing, virtual elimination of transcription and calculation errors, up-to-date cost reports, and more.

The system is provided with installation, training, and ongoing hardware and software maintenance, as well as customization of special formulas and reports.

Price: \$3000

Contact: Les Palenik
(416) 298-9161

SHARED SYSTEMS SUPPORT LTD.
3251 Kennedy Road, Unit 5A
Scarborough, Ontario M1V 2J9
Canada

CHROMA-PAC

Operating System: RSX, RT-11

Keywords: • Chemical • Process control • Shop floor control

CHROMA-PAC is a full color control package for the textile, paint, ink, color compounding, plastic, and cooling industries.

Price: \$35,000 - \$40,000

Contact: Norman Uress
(609) 924-2189

APPLIED COLOR SYSTEMS, INC.

P.O. Box 5800

Princeton, NJ 08540

CIMCO Interactive APT (Automatically Programmed Tools)

Operating System: RSX

Keywords: • CAD/CAM • Graphics

This complete multiuser system produces accurate, cost-effective tapes for all types of NC machine tools and optimizes the process from print to finished part. APT is an English-like computer language designed to simplify tape preparation. Extremely powerful yet easy to learn and use, APT is a popular part-programming language. IAPT offers on-line error correction, graphics display of geometry and of the cutter path and tool shapes, storage and retrieval of geometric definitions, and the examination of the standard CL file before postprocessing.

A lathe module is available to provide a convenient means of describing tool motion for typical lathe roughing and threading operations. Also available is the generalized postprocessor, which helps keep overall system costs down and frees the user from dependence on outside vendors for custom software, and a backplotting package, which accepts existing punched tapes or tape images on diskettes and plots the resulting tool paths.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Ron Hunt

(214) 655-8930

COMPUTER INTEGRATED MANUFACTURING CO.

1930 Hi Line Drive

Dallas, TX 75207

CMI PROFIT

Operating System: RSTS

Keywords: • Financial planning • Inventory
• Production control • Shop floor control

CMI PROFIT is a complete, user-friendly on-line interactive closed-loop MRP II manufacturing system as described by APICS. The program is fully integrated with its own accounting/distribution system and is used by more than 350 firms in various manufacturing disciplines. The package features:

- Financial planning for budgeting, production planning, and sales forecasting
- Manufacturing planning for master scheduling, material requirements planning (regenerative or net change), capacity requirements planning, and rough-cut capacity planning
- Manufacturing control for work orders, labor reporting, material reporting, routings, and net material requirements
- Engineering control for single, multilevel, and same-as-except-for bill of materials and new-product estimating
- Inventory control (multilocation) for purchase order processing, inventory average costing, inventory analysis, and physical inventory
- Sales control for sales order processing, sales analysis, and customer service
- Manufacturing costing for work order costing and work order budget reporting
- Accounting control for customer billing, accounts receivable, accounts payable, payroll, and general ledger

A version of this product is available for the VAX computer.

Price: \$20,000 – \$60,000

Contact: Linda Knapkiewicz

(414) 327-4471

COMPUTER METHODS
10335 W. Oklahoma Avenue
Milwaukee, WI 53227

CMR21 Host Utility, Version 1.0

Operating System: RSX

Keywords: • Communications • Device drivers/handlers
• Programming tools • Project management

This library of RSX-11/VMS utility programs assists users of CMR21 distributed industrial control processors in configuring and supporting networks of CMR21 units. This utility is not required to operate the CMR21. However, in applications that have many CMR21 processors distributed over a wide area, the utility provides a convenient set of nonprivileged executable tasks to determine network configuration and to access individual processors in the network.

The CMR21 Host Utility is compatible with VAX/VMS and PDP-11/RSX-11. The utility supports both mapped and unmapped memory configurations and is distributed in Files-11 format.

Refer to SPD #30.39.00 when requesting further information on this product from your local DIGITAL sales office.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Consult your local DIGITAL sales office (see Introduction).

COP (Customer Order Processing), MCBA, Inc.

Operating System: CTS-300, RSTS, RT-11

Keywords: • Billing • Distribution • Order entry
• Warehousing

COP provides 2-pass customer order entry with separate billing, integrates with MCBA's manufacturing system, and has features for distributors. COP allows on-line entry and editing of customer orders and/or credit memos, allocates line items at entry time, checks credit and availability at entry time, accepts order and/or line-item discounts at entry time, handles back orders automatically, supports distribution from multiple warehouse locations, allows selective and partial billing, supports a 10-character zip code, accepts multiple prices for each line item and mass price change, and allows product category account maintenance.

In addition, COP collects sales history automatically and prints sales history reports on request and the Products Sold by Customer and Customers by Products Sold reports. COP accepts multiple discounts for each customer on a product-line basis as well as trade discounts for each product, interfaces to five other MCBA application packages, and supports security system and multicompany capabilities.

A version of this product is available for the VAX computer.

Price: \$3000 - \$4500

Contact: Sales Representative
(818) 957-2900

MCBA, INC.

2441 Honolulu Avenue
Montrose, CA 91020

CPCS-I (WECON Computer Process Control System)

Operating System: RSX

Keywords: • Chemical • Petroleum • Process control

This complete process control/SCADA system features fill-in-the-blanks definition, a block-oriented control language, data acquisition, alarming, historical data collection, averaging, AGA-3 flow compensation, steam tables, exact screen-image hard copy, interactive flow graphics, a color-display builder, and a batch-control package. CPCS-I is limited to 1000 blocks. It is written in FORTRAN and limited to DIGITAL equipment under the RSX-11M-PLUS operating system.

Price: \$5000 - \$15,000

Contact: J. L. Fuentes
(713) 499-7575

WECON PROCESS SYSTEMS INC.
10435 Greenbough, Suite 300
Stafford, TX 77477

DECtap Manufacturing System, Version 1.3

Operating System: None required

Keywords: • Disk utilities • Menu handlers • Report writer
• Security

Distribution medium: RL02.

The DECtap Manufacturer is a group of multiuser business data processing software systems for the discrete build-to-order manufacturer. The DECtap Base System provides utilities and file architecture support for Inventory Management, Order Management, Product Data Management, and Shop Control and Costing systems. DECtap Manufacturing interfaces with Order Processing, Accounts Receivable, Accounts Payable, Purchase Order Control, General Ledger, Sales Analysis, and Payroll systems. (Refer to SPD #14.32.xx for detailed descriptions of those DECtap optional systems.)

DECtap offers a means of adapting certain aspects of the software to meet specific user requirements through an easy-to-use interactive tailoring facility. The tailoring process involves answering a series of questions about the customer's business operations.

Self-paced instruction manuals are provided for Inventory Management, Order Management, Product Data Management, and Shop Control and Costing systems complementing tutorial data stored on the DECtap system. Hands-on interaction allows users to progress at their own rate simulating actual data entry and report preparation.

DECtap customer documentation is provided.

Refer to SPD #14.84.00 when requesting further information on this product from your local DIGITAL sales office.

Price: \$1500 - \$2000

Contact: Consult your local DIGITAL sales office (see Introduction).

DNC-11 (Direct Numerical Control Package)

Operating System: RSX

Keywords: • CAD/CAM • Materials handling
• Process control • Shop floor control

DNC-11, a part program distribution system for the manufacturing market, provides a direct link between the CAD/CAM environment and numerically controlled (NC/CNC) machines on the shop floor. DNC-11 eliminates generating NC programs on paper tapes that are then manually transported to the NC/CNC machine level. The result is faster design to production and elimination of most problems encountered with paper tapes.

The system runs under RSX-11M and VMS and can comprise two or three levels:

- **Host system:** For part program storage, command interpretation, logging, communication with remote mainframes, and optionally for CAD/CAM or program development.
- **Subsystem:** For program distribution; in smaller applications, this software can run on the host system.
- **Machine connection level:** Three methods are possible.
BTR technique (Behind Tape Reader): The paper tape reader on the NC/CNC machine is replaced by a microprocessor-based BTR interface available from DIGITAL. Firmware emulates the tape reader to control the machine. Connection is by means of an optically isolated parallel port and uses an error-free communication protocol.

CTE terminal: Based on the VT103 or RT103, this terminal provides for local storage and editing of part programs as well as machine feeding control. Connection is through a serial line to the BTR interface.

Direct communication: For CNC machines that have an error-free protocol implemented.

A version of this product is available for the VAX computer.

Price: \$15,000

Contact: Consult your local European DIGITAL sales office or call 49-89-95910.

DNC (Distributed Numerical Control)

Operating System: IAS, RSX

Keywords: • Production control • Shop floor control

This program, distributing NC part programs to machine tool controllers, serves the middle level of a 3-level hierarchy. NC program files are exchanged with a large (mainframe) computer on the top level while individual jobs are scheduled, and their corresponding NC programs are down-loaded to machine tool controllers at the bottom level. The system also allows for development of new NC programs or modifying existing NC programs. Files of active NC programs are maintained within the DNC system.

The DNC system improves productivity for machine shops using NC and/or CNC controllers by eliminating paper tapes and their problems from the shop floor, as well as paper tape readers and punches from normal operations; reducing set-up time between jobs by the use of job queues for part programs on disk, which are quickly down-loaded upon operator request; automatically collecting job statistics, such as run times, down times, efficiencies, piece counts, and tool changes; automatically updating NC part programs after changes have been made by the operator and/or part programmer; passwords for security; simultaneously part programming on the DNC minicomputer and other operations if no mainframe computer is available; supervising many machine tools by a single DNC minicomputer through simple (twisted-pair) wiring; completing current jobs, using buffer memories in the CNC, starting new jobs with the paper tape readers; and automatically checking all file transfers for errors.

A version of this product is available for the VAX computer.

Price: \$20,000 – \$50,000

Contact: William P. Jenney, President
(716) 668-1606

JENNEY SYSTEMS ASSOCIATES, LTD.
2618 Union Road
Buffalo, NY 14227

EQUINOX™

Operating System: RSX, RT-11

Keywords: • CAD/CAM • Graphics • Menu handlers

This computer-aided drafting software combines the simplicity of computer graphics with powerful drafting features. Drawings can be quickly created, stored, recalled, and edited. A unique menu approach guides the user through logical sequences to create geometry and to perform other visual operations such as in-process drawings, set-up sheets, and tooling sheets. Dimensions are automatically drawn with arrowheads and text, showing precise measurement

between selected drawing elements. Other key features include layering and crosshatching. Commonly used shapes can be defined once and used in multiple drawings.

The system also offers a menu-driven NC graphics package. Users may incorporate their own machining methods or allow EQUINOX to apply efficient techniques. The package features automatic routines such as lathe roughing, lathe grooving, mill contouring optimization, and clamp avoidance. Users may view the in-process parts of machine-tool coordinate systems through machining simulation. NC graphics is compatible with COMPACT II, which allows the program to interface with other CAD systems; enables COMPACT II programs to be read into the EQUINOX systems; and allows graphics to be used efficiently and transported.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Thomas J. Schaefer, Director of Marketing
(313) 995-6000

MANUFACTURING DATA SYSTEMS INC.
4251 Plymouth Road, P.O. Box 986
Ann Arbor, MI 48106

FACS Work Order System

Operating System: RSTS

Keywords: • Cost accounting • Financial analysis
• Shop floor control

For companies that install equipment and do repair work in a job shop environment, this system permits accurate tracking of the profitability of shop operations. The direct interface of the Work Order System to the FACS Inventory System provides inventory reductions directly to a work order. Tracking work orders by type allows analysis of estimates, actual costs, and variances for similar work orders. Analysis reports for work in process and completed work orders can be provided quickly and easily.

Features include the entry of text and/or detailed information for work-order proposals, acknowledgments, and invoices; a breakdown of work-order analysis into labor with five user-defined categories, such as parts, units, shop supplies, subcontractors, and so forth; an issue parts and return parts to inventory; a screen inquiry for status of work orders in process; analysis and closing of completed work orders; flexible pricing for contract jobs and time and material work orders; categorizing and tracking work-order history; and automatic update to accounts receivable sales history for complete year-to-date customer sales activity.

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Reporting features include the printing of proposals, acknowledgments, work orders, and invoices; the percentage of completion based on labor dollars; the analysis of gross margin on each work order by category; and user-defined reports for work-in-process and work-order histories.

Reports can be printed to a screen, to a line printer, or to a printer linked to a CRT or can be queued to a print spooler.

Price: Available upon request

Contact: Steven L. Buth
(509) 624-4248

SPOKANE COMPUTER SERVICES, INC.
West 915 Second Avenue
Spokane, WA 99204

FINCON (Financial Control System)

Operating System: RSTS, RSX

Keywords: • Accounting • Inventory • Order entry
• Real time

FINCON is a real-time system designed to be fully integrated into any of the modules of IMPCON (Production Control/Manufacturing), if desired. FINCON contains sales, purchase, and nominal ledgers, as well as optional sales order entry and stock control modules. FINCON can be installed on a modular basis. Additionally, interfacing to PAYSOLVE (Payroll) will be available.

A version of this product is available for the VAX computer.

Price: £3000 - £12,000

Contact: M. J. Bradley, Sales and Marketing Manager
0905 53335

STAVELEY COMPUTING
Blackpole Road
Worcester WR3 8TH
United Kingdom

FMIS (Foundry Management Information System)

Operating System: CTS-300, RT-11

Keywords: • Cost accounting • Information management
• Materials handling • Production control

This comprehensive cost accounting system allows either direct or full absorption costing. The system provides management with variance reports encompassing labor efficiency, material usage, scrap, and overhead allocation (both variable and fixed). For example, labor efficiency reports are available for cost centers, shifts, specific labor operations, or specific employees.

Complete bill of material processing is included. Production and scrap allowance standards are defined by building structures (bills of material and labor operations) for cores, core assemblies, and castings as required.

Data entered to report labor operations is processed by the Payroll and Inventory Control subsystems. Hourly rates, piece rates, or a combination may be used. General ledger posting is automatic.

Detailed production information is retained, and analytical routines are provided to evaluate pricing and profit margin and to assist in cost reduction efforts.

Price: \$10,000 - \$20,000

Contact: R. A. Evanson
(507) 452-8833

PARAGON DATA SYSTEMS
927 East King Street
Winona, MN 55987

FMRP (Full Material Requirements Planning)

Operating System: CTS-300, RSTS, RT-11, TSX-PLUS

Keywords: • Materials handling

This MCBA system provides all the features of Base MRP, highlights exceptions, recommends shop order releases, supports multiple-order policies, provides pegging, recommends purchase order releases, accommodates what-if operations, and is the key to successfully implementing manufacturing resource planning.

Application Development and Enhancements, Inc., is a New England distributor of software products manufactured by Mini-Computer Business Applications, Inc. (MCBA), in Montrose, California.

A version of this product is available for the VAX computer.

Price: \$2000 - \$6000

Contact: Marianne Chester
(617) 938-1979

APPLICATION DEVELOPMENT AND
ENHANCEMENTS, INC.
29-B Montvale Avenue
Woburn, MA 01801

H-BOMM

Operating System: ULTRIX-11, UNIX* (System III, System V),
XENIX

Keywords: • Decision support • Forecasting • Management

Helmsman's bills of material management system provides a product structure management tool for planning, control, and decision making. Its features and spreadsheet capabilities make H-BOMM the ideal what-if planning tool. H-BOMM integrates with other Helmsman products to form a material requirements planning package, H-MRP. As the nucleus of Helmsman's material requirements planning system, H-BOMM supports a complete and classic demand-dependent MRP system, a system for small manufacturers.

As a desk-top computer tool linked to a large-scale computer, H-BOMM can receive and operate on portions of a company's product structure data base. H-BOMM users can perform complex operations not available on a large computer system, and no programming skills are required.

Operating on a micro, H-BOMM exceeds the features and functions of mainframe and minicomputer software. With the support of H-CHAMP and operating in a work station connected with a mainframe, H-BOMM is the manufacturing and engineering manager's equivalent of the financial manager's spreadsheet tool.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$2495

Contact: Lew Silverstein
(408) 246-8300

HELMSMAN SYSTEMS, INC.
1030 S. Winchester, Suite 205
San Jose, CA 95128

H-BUY

Operating System: ULTRIX-11, UNIX* (System III, System V), XENIX

Keywords: • Order entry • Process control • Purchasing
• Quality control

H-BUY, an on-line interactive system, provides purchasing and receiving management for manufacturing operations. H-BUY integrates with other Helmsman products to form a material requirements planning package, H-MRP.

H-BUY's Purchasing function group enters, tracks, and controls open purchase orders and provides on-line status and historical information. Reducing the buyer's clerical effort allows more time to control the cost and adverse variance of material and to evaluate the delivery performance of the vendor. By treating purchased material as "good parts on hand" only when it has passed inspection and is in

Stores, the Purchasing group more accurately monitors the arrival and quality of vendor items. A user-controlled report generator is included in the function group.

The Vendor function group establishes and controls the vendor-to-part relationship. By tracking the vendor's history and commitments, the group of programs establishes which vendors best meet an organization's needs.

A well-run Receiving function controls vendors more efficiently, regulates the flow of material, and raises the level of service.

The Receiving function group tracks and controls material and provides on-line status and historical information. By matching purchase order and receiving information, the system ensures payment only for good material in the specified quantity. Because the system flags back-ordered material, expedition begins as soon as needed material arrives.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$2495

Contact: Lew Silverstein
(408) 246-8300

HELMSMAN SYSTEMS, INC.
1030 S. Winchester, Suite 205
San Jose, CA 95128

H-MAKE

Operating System: ULTRIX-11, UNIX* (System III, System V), XENIX

Keywords: • Process control • Production control
• Project management • Shop floor control

This on-line interactive system provides work-in-process management for manufacturing operations. H-MAKE integrates with other Helmsman products to form a material requirements planning package, H-MRP.

Work-in-process tracking is the cornerstone of closed-loop MRP. H-MAKE allows production and production control to make the decisions, to set the priorities, and to meet the order schedules. Reliable, consistent performance directly influences lower investment in finished goods inventory and better customer service.

The Work Order function group enters, tracks, and updates work orders; provides on-line work-in-process status information; and includes a user-controlled report generator, tied to work order number or part number. Paperwork packets including kit pull lists are

generated for each job. The system ties back-order item detail to work order and makes the information available on line. Delays and splits are possible. Work orders are tied to and controlled by due date.

The Work Center and Route function groups establish and update work center and routing information. The Route group provides a report generator that ties work center to work order information. Those reports give the shop supervisor an information base for close-in scheduling and dispatching.

Flexible, quick-reacting production control planning requires you to perform what-if simulated kit pulls. The Kitting function group has two what-if simulated kit pull tools that let you answer the question "Can this kit or set of kits be pulled now?"

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$1495

Contact: Lew Silverstein
(408) 246-8300

HELMSMAN SYSTEMS, INC.
1030 S. Winchester, Suite 205
San Jose, CA 95128

H-MRP

Operating System: ULTRIX-11, UNIX* (System III, System V),
XENIX

Keywords: • Bill of materials • Inventory • Purchasing
• Shop floor control

H-MRP, a material requirements planning package, incorporates the classic MRP concepts. H-MRP is an on-line, demand-dependent, transaction-driven, net-change system. The H-MRP package includes H-CHAMP, applications environment; H-BOMM, bills of material manager; H-STORE, inventory management and stores; H-MAKE, work-in-process management; H-BUY, purchasing and receiving; H-PLAN/M, master schedule and planner controls; and MRP.

H-MRP integrates with other suppliers' application software packages supporting the needs of manufacturing company users. For instance, the H-CHAMP tools can be used to integrate the H-MRP modules with presently installed accounting or sales and forecasting packages.

H-MRP runs on the de facto standard operating systems for 8080/8085/Z80, 8086/8088, Z8000, and 68000 families of hardware.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$9995

Contact: Lew Silverstein
(408) 246-8300

HELMSMAN SYSTEMS, INC.
1030 S. Winchester, Suite 205
San Jose, CA 95128

H-PLAN/M

Operating System: ULTRIX-11, UNIX* (System III, System V),
XENIX

Keywords: • Inventory • Process control • Production control
• Scheduling

H-PLAN/M is an on-line interactive system providing master schedule and planner controls and MRP for manufacturing operations. The system integrates with other Helmsman products to form a material requirements planning package, H-MRP.

The Material Requirements Planning function group provides the time-phased, net requirements for each item; the group compares independent demand from the master schedule and dependent demand from the BOM explosion to the on-hand inventories and open purchase and work order status. This group also enables you to control MRP rules. Choose between regenerative or true transaction-driven net change rules. An on-line MRP inquiry initiates a single-level MRP updated display for that item for current information. The MRP is "full-pegging." The MRP function group also includes what-if simulation, a powerful tool for making management decisions.

The Master Schedule affects customer-order service and inventory-investment levels. This group drives the MRP System with product requirements by date, quantity, and configuration. The group compares forecast and sales order information to the production plan and recommends where to adjust the master schedule. Included is a rapid-response, rough-cut capacity planning tool, in addition to top-down, what-if simulation.

The Planner Control function group enhances system effectiveness by apportioning and delegating system activities to designated individuals. This group enables you to control all aspects of the inventory rules that affect each of the parts in the system data base. You can choose order point or MRP control, internal and safety lead time, safety stock, and order quantity rules. The group includes an extensive user-controlled report generator.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$2495

Contact: Lew Silverstein
(408) 246-8300

HELMSMAN SYSTEMS, INC.
1030 S. Winchester, Suite 205
San Jose, CA 95128

H-STORE

Operating System: ULTRIX-11, UNIX* (System III, System V)

Keywords: • Distribution • Inventory

H-STORE, an on-line interactive system, provides inventory and stores management for manufacturing operations. The system integrates with other Helmsman products to form a material requirements planning package, H-MRP.

The Stores group provides a perpetual on-line inventory record, maintained by inventory personnel. You can trace data base transactions to the source document and to the responsible operator. The system includes a user-controlled report generator.

The Charge Number and Month-End function groups provide inventory and WIP transaction interfaces to the financial and accounting functions. The groups also detail and summarize the current month's system transactions. The references to source documents and operators help management review and edit that information before transferring it to the general ledger accounts. Dual tracking and a user-controlled report generator are included.

The Back-Order function group tracks and reports back-order status and issues and includes a user-controlled report generator. By flagging relevant inquiries and reports, the system helps to expedite back orders, both at the vendor's plant and in house.

The Cycle Count function group statistically measures Stores' accuracy and continually adjusts physical-to-book inventory.

The Physical Inventory function group controls the source documents for the classic, audited, and physical inventories and processes the approved physical-to-book inventory adjustments that follow.

The Planner Control group provides history-oriented inventory control, item classification, lot size, EOQ, safety stock, and order point. Those functions do not depend on bills of material or material requirements planning. The function group also includes a user-controlled report generator.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$2495

Contact: Lew Silverstein
(408) 246-8300

HELMSMAN SYSTEMS, INC.
1030 S. Winchester, Suite 205
San Jose, CA 95128

HYBRIDLO (CAD/CAM Software Package for Hybrid Circuit Layout)

Operating System: DSM, RSX, RT-11, UNIX* (Version 7)

Keywords: • CAD/CAM • Electrical • Electronic
• Graphics

HYBRIDLO is a CAD/CAM software package for designing and manufacturing masks for integrated circuits. The package features extensive on-line design and editing capability; parametric cells; built-in pick a menu; user-definable fill density; total number of definable points equal to 10^{14} ; true zoom/pan to any magnification; user definition of named cells and their subsequent manipulation as single entities; automatic documentation files creation in which session dialog is preserved in instruction files and graphics information is saved in drawing files; continuous display when desired of digitizing grid points, center coordinates, resolution, and scale; built-in arc and alphanumerics; on-line CAM check; and true display of final artwork.

Built-in BASIC-like commands allow the user to define his/her design rule. For example, the commands multiple step and repeat, rotation, mirror reflection, and others allow the user to add, modify, and measure features. Plus, a powerful cut command removes features within specified boundaries that belong to a subset chosen from 28 levels or colors.

Options include a hard-copy unit to dump graphics/text information from screen, a data tablet, a modem, a drum plotter, color graphics/text display, a digitizer, a color printer/plotter, and a camera.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$4000 - \$40,000

Contact: Park Y. Lee, President
(617) 891-8961

CTEX, INC.
366-5 Elliot Street
Newton, MA 02164

ILS-11 (Interactive Layout Software)

Operating System: RSX, RT-11

Keywords: • CAD/CAM • Graphics • Metals

This CAD/CAM interactive graphics design system for fabricated metal products on all machine tools and machining centers is both CAM controlled N/C controlled. DNC cassette and punched-tape output is available. Full drafting, design, and shop drawing capabilities are included in this fast and easy-to-use software package.

Shop floor control, job estimation, word processing, and other supporting software packages are available.

A version of this product is available for the VAX computer.

Price: \$10,000 - \$50,000

Contact: William Hoff

(203) 575-9300

CAM-APT, INC.

166 Railroad Hill Street

Waterbury, CT 06708

I/M (Inventory Management), MCBA, Inc.

Operating System: CTS-300, RSTS, RT-11

Keywords: • Distribution • Inventory • Report writer

This comprehensive stand-alone inventory management tool is applicable to both manufacturing and distribution inventories. The application allows multiple inventory locations, stocked and nonstocked items, warehouse transfers and issues and receipts, and purchase order entry, editing, and tracking; provides physical inventory tag support and cycle counting support; interfaces to seven other MCBA application packages; and supports security system and multicompany capabilities. I/M also prints the ABC Analysis Report, with optional update; the Usage Exceptions Report; and the Inventory Stock Status and Reordering Advice reports.

The user can clear item month-to-date fields and recalculate several averaged fields, clear item month-to-date fields only, clear item year-to-date fields, or evaluate LIFO inventory and cost rollover.

A version of this product is available for the VAX computer.

Price: \$3000 - \$4500

Contact: Sales Representative

(818) 957-2900

MCBA, INC.

2441 Honolulu Avenue

Montrose, CA 91029

IMCS (Interactive Manufacturing Control Systems)

Operating System: RSTS

Keywords: • Inventory • Scheduling • Shop floor control

This interactive manufacturing control system offers current status, planning, and inventory control information. IMCS consists of six integrated systems:

- Interactive Inventory Management System maintains current information on inventory, manufacturing orders, purchase orders, and material allocations.
- Interactive Manufacturing Standards System supports the creation, maintenance, and reporting requirements for bills of material and routings.
- Interactive Material Requirements Planning System explodes the master schedule into its component requirements and calculates net available inventory and open orders.
- Interactive Shop Floor Control System gathers information for control of work flow over a short period of time.
- Interactive Purchasing System provides the control for purchasing, receiving, and inspection, as well as the interface to the accounts payable system.
- Interactive Capacity Planning System provides a planning facility for long-range capacity needs.

A version of this product is available for the VAX computer.

Price: \$30,000 +

Contact: Kim Sheridan

(602) 323-1813

INTERACTIVE INFORMATION SYSTEMS, INC.

Rt. 8, Box 702L

Tucson, AZ 85748

IMPCON (Inventory Management and Production Control System)

Operating System: RSTS, RSX

Keywords: • Bill of materials • Inventory
• Production control • Purchasing

This completely integrated real-time system for manufacturers can be integrated into any of the modules of FINCON (Financial Control), if desired. IMPCON offers parts control, stock location control, movements inwards/outwards, purchase ordering and control, work orders, costing, bills of material, material requirements planning, work in progress, and production planning/forecasting. The system can be installed on a modular basis. Additionally, interfacing to PAYSOLVE (Payroll) will be available.

A version of this product is available for the VAX computer.

Price: £5000 – £20,000

Contact: M. J. Bradley, Sales and Marketing Manager
0905 53335

STAVELEY COMPUTING
Blackpole Road
Worcester WR3 8TH
United Kingdom

INFOR/LABCAL

Operating System: RSX

Keywords: • Chemical • Inventory • Printing
• Production control

INFOR/LABCAL is an inventory and production control package for batch processing. The program serves the textile dying and printing, paint and coatings, plastics compounding, ink and printing, cosmetics, and specialty chemicals industries.

Price: \$10,000 – \$50,000

Contact: Norman Uress
(609) 924-2189

APPLIED COLOR SYSTEMS, INC.

P.O. Box 5800

Princeton, NJ 08858

INFOR/PAC

Operating System: RSX

Keywords: • Chemical • Inventory • Printing
• Production control

INFOR/PAC is an inventory and production-control package for batch processing. The program serves the textile dying and printing, paint and coatings, plastics compounding, ink and printing, cosmetics, and specialty chemicals industries.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$50,000

Contact: Norman Uress
(609) 924-2189

APPLIED COLOR SYSTEMS, INC.

P.O. Box 5800

Princeton, NJ 08858

INFOR/TEX

Operating System: RSX

Keywords: • Chemical • Inventory • Printing
• Production control

INFOR/TEX is an inventory and production control package for batch processing. The program serves the textile dying and printing, paint and coatings, plastics compounding, ink and printing, cosmetics, and specialty chemicals industries.

Price: \$10,000 - \$50,000

Contact: Norman Uress
(609) 924-2189

APPLIED COLOR SYSTEMS, INC.

P.O. Box 5800

Princeton, NJ 08858

Integrated Manufacturing and Financial System, Version 3.2

Operating System: CTS-300, RSTS, RSX

Keywords: • Materials handling • Order entry
• Production control

This system is designed for manufacturers that build or ship to customer order. Those manufacturers can be varied in their procedures and products. Some build partially to stock and others only for the job. Production can be based on a mix of customer forecast and backlog orders. Products can range from metalworking through electronics to parts, equipment, and much more. The system includes order entry/invoicing, quotations, bills of material/routing, inventory/purchasing, job cost/estimating, production planning, shop floor control, material requirements planning, tool crib inventory, all financials, word processing, and electronic spreadsheet. Applications can be run individually or integrated as a complete system. The system is fully supported with demonstrations, training, warranty, documentation, telephone support, a continuing maintenance agreement, and dial-in support.

A version of this product is available for the VAX computer.

Price: \$2000 - \$5000

Contact: Arthur Martin, President
(203) 677-6563

COMPUTER COVENANT CORP.

Integrated Manufacturing Systems

790 Farmington Avenue

Farmington, CT 06032

INVENT (Inventory for Manufacturing Companies)

Operating System: RT-11

Keywords: • Inventory • Report writer • Taxes

These inventory programs for manufacturing companies can handle up to 10,000 types of parts. All user programs are accessed through a master program called INVENT.

Options include adding new parts, looking up parts, adjusting quantities, deleting parts, and correcting any item. The programs can print inventory reports, reorder reports, inventory value reports, complete inventory listings, and inventory labels. The inventory listing includes part number, description of part, quantity on hand, reorder point, reorder quantity, estimated annual use, unit cost, vendor number, and date of last use.

Additional features include automatic computation of estimated annual usage and automatic computation of the lower of cost or average for tax purposes. The system even produces an inventory audit trail for a cross-check of your entries.

All programs are written in BASIC-11 and are supplied on an RX02 8" diskette, dimensioned to handle 3000 part numbers. A disk can be used to handle 10,000 part numbers. A user's manual is included with the system.

Price: \$1850

Contact: Raymond H. Green, President
(813) 360-1967

RAY GREEN AND ASSOCIATES
603 55th Avenue
St. Petersburg Beach, FL 33706

Inventory Control

Operating System: RSX

Keywords: • Inventory • Materials handling
• Production control • Report writer

This inventory control module may be operated as part of the integrated Business Information System to track material from production forecast through purchasing, receiving, incoming test and inspection, multiple stockrooms, multiple stages of work in process, test and inspection, finished products, and shipment to customers. The module may be integrated to one or more other Breuer & Co. modules — Purchasing, Sales Order Processing, Bill of Materials, Job Cost Accounting, and General Ledger. Alternatively, the module may be operated independently of other software.

Integrated with Bill of Materials, the module's production forecast capability can generate purchase requisitions. Reports include inventory status, stockout/pending shortages, material requirements based on production forecast, product commitments based on customer sales orders, receiving and on-order reports, inventory valuation, shipping reports, and transaction reports with receipts, issues, transfers, adjustments, and so on.

A version of this product is available for the VAX computer.

Price: \$6000

Contact: Janna McMillan
(617) 275-5810

BREUER & CO.
54 Middlesex Turnpike
Bedford, MA 01730

ISAP (Interactive Wire List Preparation)

Operating System: RSTS, RSX

Keywords: • CAD/CAM • Electrical • Electronic

This CAD/CAM package, developed by Advanced Computer Concepts Inc., converts schematic diagrams and assembly layouts to programming data for wire wrap machines and provides reports supporting the user's design effort. Libraries of devices, schematics, and assembly layouts are interactively prepared and merged to develop the wire wrap data. Continued use expands device and data libraries and reduces custom data entry. Extensive reports and error messages ensure trouble-free development of prototype and production wire wrap boards. ISAP eliminates the time-consuming and error-prone intermediate wire lists, coding sheets, and so on, and optimizes the wire wrap machine data for the most efficient wiring.

A version of this product is available for the VAX computer.

Price: \$1250 - \$4000

Contact: Cheryl Pankratz
(714) 998-6041

MIDCOM CORP.
1940 N. Tustin Avenue, Suite 117
Orange, CA 92665

J/C (Job Costing), MCBA, Inc.

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts payable • Cost accounting
• Project management • Security

This complete job costing system provides accurate cost reporting and comprehensive variance analysis. J/C includes interactive entry and editing of labor and material tickets. J/C supports standards or estimates for variance analysis, allocates fixed and variable overhead, provides security and multicompany support, and interfaces to five other MCBA packages. This package also prints a job cost analysis report by job, department, work center part and operation and a variance analysis report that includes rate, yield, performance, and quantity breakdowns for labor, material, and subcontracting.

Special J/C features are job copy, job cost master file, general ledger interface, accounts payable interface, and cost table defaults maintenance.

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A version of this product is available for the VAX computer.

Price: \$2500 - \$4000

Contact: Sales Representative
(818) 957-2900

MCBA, INC.
2441 Honolulu Avenue
Montrose, CA 91020

J/PICS (Process Information and Control System)

Operating System: RSX

Keywords: • Data conversion • Graphics • Process control
• Report writer

This fill-in-the-blanks process control software package allows the user to define a process in engineering units and in English. The system supports the functions of scanning, conversion, limit checking, alarming, control, historical data collection, operator interface with color graphics, logging, trending, and averaging. J/PICS supports both batch and continuous-type processes, as well as DDC, supervisory, cascade, and adaptive control loops. J/PICS allows the user to take points in and out of scan, substitute values, set or reset digital points, and generate reports. The generation of the data base can be done off line or on line to perform addition, deletion, and modification without impacting the execution of the real-time system. J/PICS can be entirely memory resident or can use a disk for display and low-priority file storage. J/PICS can exist in a stand-alone configuration or can support many CPUs in a network or distributed environment. J/PICS has as an option, a batch scheduler, a recipe builder, and a report generator.

Price: \$30,000

Contact: W. Patrick Huff, Director of Sales
(305) 725-1300

SCIENTIFIC SYSTEMS SERVICES, INC.
P.O. Box 610
Melbourne, FL 32901

Keane's Factory Information System

Operating System: RSTS, RSX

Keywords: • Bill of materials • Inventory
• Materials handling • Production control

Keane's Factory Information System is a fully integrated manufacturing system providing on-line updates and access to the data through easy-to-use screens, complete security controls, and error validation. The system is also fully integrated with the Financial Accounting System.

Keane's Factory Information System consists of nine modules: Inventory Control, Factory Order and Pick List, Bills of Material, Shop Floor Control, Costing, Material Requirements Planning, Master Production Scheduling, Purchasing and Receiving, and Process Flow Sheet and Routing System.

The software is compatible with DIGITAL DATATRIEVE.

A version of this product is available for the VAX computer.

Price: \$35,000 - \$60,000

Contact: Robert Clifford
(617) 863-0330

KEANE, INC.
420 Bedford Street
Lexington, MA 02173

LABDAT (Labor and Data Collection)

Operating System: Micro/RSTS, RSTS

Keywords: • Data collection • Personnel • Real time

LABDAT is offered as an integrated product with IMCS, IIS's interactive manufacturing control system, or as a stand-alone labor and data collection system that could front end other manufacturing packages. This package consists of three stand-alone modules: human resources management, a time and attendance module, and shift and labor reporting.

A version of this product is available for the VAX computer.

Price: \$25,000 +

Contact: Doug Fine
(602) 323-1813

INTERACTIVE INFORMATION SYSTEMS, INC.
1145 N. Woodland Avenue
Tucson, AZ 85711

LP (Linear Programming)

Operating System: RSTS, RSX, RT-11

Keywords: • Decision support • Pharmaceutical • Simulation

LP performs a very interactive mathematical programming function (analysis) on a given matrix of data. LP allows the use of <, =, > constraints and outputs a message to the user of a feasible, infeasible, or unbounded solution. LP permits a matrix of up to 8000 variables and solves a wide range of business and engineering problems, including product mix, scheduling, distribution, forecasting, marketing, government efficiency, and production planning.

The price is a 1-time license fee.

A version of this product is available for the VAX computer.

Price: \$5000

Contact: Jon Prescott
(619) 247-7219

J & S ASSOCIATES
13407 Quapaw Road
Apple Valley, CA 92307

M-Net™ (Manufacturing Network)

Operating System: RSX

Keywords: • Data collection • Networking
• Shop floor control

Distribution medium: 800/1600 bpi magnetic tape.

M-Net is a layered network designed for the manufacturing environment. Sales to date have been in the IC, or integrated circuit, manufacturing area, including IC test houses and volume IC consumers. M-Net enables the user to interconnect different makes and types of production and test equipment into a comprehensive network without purchasing and maintaining levels of proprietary, noncompatible networks. The equipment need not be in the same location as M-Net.

The need to collect data from different design, fabrication, and test equipment is paramount in the integrated circuit industry. Valuable engineering labor and turnaround time are saved, ultimately leading to greater productivity, higher yields, greater quality control, and lower cost.

M-Net has been designed and developed to provide real-time data collection, analysis, control, and display, rather than trying to adapt an existing business system to meet production needs. The key features provide support for a variety of equipment from many vendors; centralized test program control and updating; flexible, easy, nondestructive modification of network configuration; in-house expertise to modify and to customize the system; and field upgradability to interface with new shop floor systems as older equipment is phased out.

A version of this product is available for the VAX computer.

Price: \$15,000 - \$45,000

Contact: Girish Shah
(602) 622-7707

INTERNATIONAL ELECTRONICS CORP.
1518 E. Broadway
Tucson, AZ 85719

Machinery Monitoring Software System

Operating System: RSX

Keywords: • A/D, D/A • Data collection
• Device drivers/handlers • Mechanical engineering

This system provides for collecting operating vibration and acoustic emission data for up to six satellite PDP-11 machines, transmitting the information to a host through a DECnet network, and analyzing and reporting the data to the plant operators and machinery engineers. A dual-channel high-speed vibration unit allows the machinery engineer to perform either a single-channel or simultaneous dual-channel spectral analysis. The satellites scan the transducers and process the information for transmission to the host. The package includes a subroutine library, drivers for input units, and applications software.

Price: \$20,000 - \$50,000

Contact: Robert C. McGill
(713) 869-9371

HOUSTON ENGINEERING RESEARCH CORP.
7250 Wynnwood, Houston, TX 77008
P.O. Box 3246, Houston, TX 77253-3246

MAESTRO™

Operating System: RSX

Keywords: • CAD/CAM • Networking • Process control

This state-of-the-art DNC/factory feedback system allows manufacturers to not only manage the distribution of part programs from any CAD/CAM or part programming system but also provide for the management of the return flow of information from the factory floor (that is, machine monitoring). Interfaces allow integration with any type of production machine (NC, CNC, robot, PC, wirewrap, and so on) and any generation of control.

MAESTRO features a library of part programs, machine status, machine monitoring, set-up files, electronic mail, security, and an easy-to-use menu operation. This unique, flexible system contains three separate approaches to ensure the most economical approach for machine integration into the system. MAESTRO is network independent, allowing the use of fiber optics, DECnet, Ethernet, or local area networks.

A version of this product is available for the VAX computer.

Price: \$15,000

Contact: Chuck Buckley
(612) 934-1040

MANUFACTURING DATA EXCHANGE
7683 Commerce Way
Eden Prairie, MN 55344

Manufacturing Control System

Operating System: RSX, RT-11, ULTRIX-11

Keywords: • Inventory • Production control

Memory required: 128K. **Distribution media:** 5¼" or 8" diskettes.

This program, written in RM COBOL, is designed for complete control of the job costing and the inventory maintenance of a manufacturing concern. This system is menu driven, with multiuser capabilities; maintains historical costs for each item, eliminating time spent in record keeping; figures sales quotes from historical data; updates purchase orders automatically; and allows the user to set price code levels, resulting in substantial savings in account management time.

A version of this product is available for the VAX computer.

Price: \$11,500

Contact: Bob Ginn
(901) 767-3759

INDUSTRY SOFTWARE SALES, INC.
P.O. Box 240804
Memphis, TN 38124

Manufacturing Spectrum

Operating System: RSX

Keywords: • Accounting • Production control
• Shop floor control

This integrated set of application software modules for the make-to-stock marketplace is written in BASIC-PLUS-2. This completely documented interactive system is menu based and easy to use.

Manufacturing Spectrum packaged software includes such manufacturing applications as quoting and estimating, shop floor control, job cost, inventory control, bill of materials, and production scheduling. Financial applications include accounts payable, payroll, accounts receivable, general ledger, sales orders, and sales analysis. The package price includes a 2-day application engineer implementation visit.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Linda M. Dobias
(617) 933-3780

WHITE HAT SYSTEMS, INC.
331 Montvale Avenue
Woburn, MA 01801

Manufacturing Systems

Operating System: RT-11, TSX-PLUS

Keywords: • Information management

Bar-coded tags or labels allow virtually error-free input. This system will track and report manufacturing information on a management or user level. Minor modifications to fit your exact manufacturing tracking needs are easily done.

Price: Available upon request

Contact: John Logan

(503) 297-1627

DENNISON EASTMAN CORP.

6400 S.W. Canyon Court

Portland, OR 97221

MAT-PAC

Operating System: RSTS

Keywords: • Bill of materials • Materials handling
• Production control • Purchasing

MAT-PAC is a computer system developed for accurate planning and control of materials. Supported by requisitions, purchase orders, and vendor deliveries, this system is designed to facilitate the monitoring and management of material costs and schedules.

Drawing material from either stock inventory or direct purchases, MAT-PAC is a watchdog system for purchasing, delivery, receiving, storing, withdrawals, and transfers. This system can give stock inventory costing and reordering forecasts, write purchase orders, measure vendor performance, and by direct linkage to SPAR's PERT-PAC scheduling system, develop and update material purchase schedules automatically.

- Project features include complete project identification, summary reporting, and selective detail reporting.
- User features are designed to allow fast and easy input and output of data. The system interacts with the user in a question-and-answer dialog and can be operated on line by many users simultaneously.

Automated delivery status and inventory reorder, rapid development of project material requirements, and error detection to ensure data accuracy are among some of the other features available to the user.

- Technical features allow the processing of an unlimited number of projects, requisitions, purchase orders, and inventory items. The system further allows a maximum of 999 items for each requisition.

A user can operate MAT-PAC with PERT-PAC and WORK-PAC.

700 Manufacturing

MAT-PAC permits setting material budgets for cost/schedule performance measurement reporting by project cost account. Consequently, management can monitor actual material costs as purchased, as delivered, and as scheduled for delivery against planned figures.

A version of this product is available for the VAX computer.

Price: \$11,500 – \$30,000

Contact: Frank Weston
(301) 263-8593
SPAR ASSOCIATES
927 West Street
Annapolis, MD 21401

MCS-3 (Manufacturing Control System)

Operating System: RSX, UNIX* (Version 7)

Keywords: • Financial planning • Inventory • Order entry
• Shop floor control

MCS-3 is a completely integrated inventory control/material requirements planning system for both 8- and 16-bit microcomputers. A redesigned and enhanced version of the MCS-2 system released in 1980, MCS-3 is written in Ryan McFarland COBOL and runs on most operating systems, including MS-DOS, PC-DOS, TURBODOS, CP/M, and MP/M.

The system includes inventory control/bill of materials, material requirements planning, shop floor control/job costing, customer order entry/sales analysis, financial resource planning, capacity requirements planning, accounts payable, accounts receivable, general ledger, and payroll. The modules can be purchased as a complete package or separately.

* UNIX is a trademark of AT&T Bell Laboratories.

Price: \$750 – \$2500

Contact: Sales Department
(614) 895-0738
MICRO MANUFACTURING SYSTEMS, INC.
2600 Corporate Exchange Drive, Suite 190
Columbus, OH 43229

MDT (Multiwire Design Technology)

Operating System: RSX, UNIX* (Version 7)

Keywords: • CAD/CAM • Electronic
• Mechanical engineering

Multiwire is a high-density, easily modifiable wired interconnection technology used extensively for complex and high-speed circuit boards. MDT is a software package for designing multiwire circuit boards and is available under license from PCK Technology.

MDT provides CAD tools for design input data preparation from a schematic and a component layout, controlled automatic interconnection routing, and manufacturing data verification for new designs. The system also provides CAD tools for rapid modification of existing designs. Manufacturing (design output) data can be sent to one of the licensed manufacturing centers throughout the world, or the associated manufacturing technology can be licensed from PCK. The design turnaround time, from schematic to production-ready data, can be on the order of days.

The distribution package comprises 232 FORTRAN source modules and 20 MACRO-11 source modules. The design system is generated from that package and provides 73 executable tasks and 14 general batch procedures and utilities. The system requires 3.5 megabytes of on-line disk storage. An additional 1.5 megabytes are required if the distribution source is to be maintained on line.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Bernard Hayduk

(516) 454-4466

PCK TECHNOLOGY DIVISION

322 South Service Road L.I.E.

Melville, NY 11747

MINI-PCAP (Process Characterization Analysis Package)

Operating System: Independent

Keywords: • Management • Process control
• Production control • Statistics

This integrated collection of statistical techniques assists in obtaining a thorough characterization of a manufacturing process. Using data collected during the normal course of production and testing or from experimental runs, MINI-PCAP assists users in identifying significant process variables, their interactions, and operating regions for maximum yields. Additionally, MINI-PCAP can be used to develop process models and to determine in-process screening limits to help minimize product costs.

MINI-PCAP can also be used to analyze types of data not associated with manufacturing processes. For example, the system helps management prepare a corporate planning policy, to analyze personnel data, to identify trends and relationships relative to various organizational operations — in short, to analyze any data that contains identifiable variables that impact on other variables.

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MINI-PCAP is used in the interactive mode and has been designed with portability as a major requirement.

Price: Available upon request

Contact: AT&T Technologies Account Executive
(800) 828-UNIX

AT&T TECHNOLOGIES, INC.

P.O. Box 25000

Greensboro, NC 27420

Minischedule and Machine Loading

Operating System: CTS-300, RSTS, RT-11, Independent

Keywords: • Inventory • Production control • Scheduling
• Shop floor control

This system is a simple yet sophisticated means of scheduling a manufacturing operation and keeping track of the factory workload at the same time. This stand-alone software, written in DIBOL, is intended for the manufacturer who is running many jobs simultaneously. The software keeps track of jobs, work centers, and time and prints or displays the following:

- A detailed schedule by work center, week, and job in a handy format for the factory floor supervisor
- A 1- or 2-page summary report showing the factory workload in work hours by work center and by week for one or more 10-week periods
- A job report showing the operations, time required, and work remaining to be done on each job
- A report that values the work-in-process inventory
- An inquiry capability by terminal so that the status of a given job can be displayed

Upon completion of the job, the schedule records may be kept and compared to the actual time taken. This process produces a continuing job time and average cost record, by part number, for continuing use and analysis.

This easily installed system is not dependent on the installation of other manufacturing applications.

A version of this product is available for the VAX computer.

Price: \$2500 - \$4000

Contact: Ralph Spofford
(603) 526-4000

ADMINISTRATIVE PRODUCTIVITY, INC.

P.O. Box 302

New London, NH 03257

MMS (Materials Management System)

Operating System: RSX

Keywords: • Inventory • Materials handling • Metals
• Purchasing

MMS is a fully integrated linear programming software package for the metals industry and includes least-cost charge design, final alloy additions, inventory control, purchasing optimization, and management reporting. MMS consists of the following programs:

- Least Cost Charge Design reduces metal mix cost, produces a more consistent product, and allows higher quality control and fewer off-analysis heats. This program optimizes on natural elements as well as complex relationships between elements.
- Least Cost Final Additions produces final addition calculations with computer speed, reducing tap time and unnecessary alloy additions.
- Inventory maintains an up-to-date materials inventory and provides accurate reports on material receipts and material usage on a heat-by-heat, month-to-date, and year-to-date basis.
- Purchase Optimization calculates the maximum purchase price for each material under consideration. Thus, effective purchases are made by evaluating your current inventory against current market conditions.
- Management Reporting gives management personnel access to recent, accurate information from a common data base. Customized reports give the information needed to track production, productivity, and costs involved in the metals industry.

Pyromet Systems provides an optional annual software-maintenance agreement. The programs may be leased or purchased and are available in separate pieces or as a complete package. Other standard and custom-designed packages are also available. All software is fully documented and supported.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$50,000

Contact: Donald Eckley
(412) 828-0680

PYROMET SYSTEMS, INC.

Expressway Park, Gulf Lab Road
Pittsburg, PA 15238

MOST Computer Systems

Operating System: RSTS, RSX

Keywords: • Data base management • Production control
• Shop floor control

These systems provide work measurement and standards-setting programs for manual labor in manufacturing. The five operating levels are methods and workplace data development, filing and retrieval for data management, application of time standards, data update and maintenance, and documentation. The standards generated by the program can be easily interfaced to other CAM modules. Optional modules are available in machining, welding, line balancing, routing, and labor reporting.

A version of this product is available for the VAX computer.

Price: \$55,000 - \$82,500

Contact: Mary T. Coughlin or Kjell B. Zandin
(412) 963-8100

H. B. MAYNARD & CO.
235 Alpha Drive
Pittsburgh, PA 15238

MRP (Material Requirements Planning)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Materials handling • Production control
• Scheduling

MRP includes the following features: supports master production scheduling, generates time-phased requirements for all levels of your product structure, computes when and in what quantities component parts are required, uses a fast regeneration algorithm, reports exceptions with recommended changes to order quantities and dates, pegs material requirements to show which customer orders or shop orders were created by demand, supports changes in product structures through parent/component effectivity dates, allows the definition of three planning-period calendars, enables full printer spooling capabilities, and supports security and multiple companies.

Any report generated by MRP may be spooled to the disk file. You may later review what reports are currently stored on the disk and print the ones you want.

The security system allows up to 200 passwords and provides access restrictions at the file level by company.

Multiple-company support allows up to eight companies to use the system at any time.

A version of this product is available for the VAX computer.

Price: \$4000 - \$6000

Contact: MCBA Sales Representative
(818) 957-2900

MCBA, INC.
2441 Honolulu Avenue
Montrose, CA 91020

MRP/Inventory

Operating System: RSTS

Keywords: • Bill of materials • Cost accounting • Inventory

Distribution medium: 9-track magnetic tape.

This system for manufacturers of mixed duty/duty-free products provides tracking of inventory movement from order through assembly to finished product, transfer of parts between jobs, standard cost accounting for transactions, and on-line display of 20 or more levels of implosion or explosion of part or subassembly.

Additional features include maintenance of inventory quantities and costs by job number within part, as well as by part, which is especially useful if costs for the same part vary between jobs. The system is highly interactive and maintains tight controls and detailed audit trails. A high-level report writer generates reports from the data base, audit trails, or both. A 1-minute session enables the user to initiate reports with user-specified sorts, page breaks, titles, selects, and totals.

A version of this product is available for the VAX computer.

Price: \$20,000

Contact: Robert Brown
(902) 429-3175

DYMAXION RESEARCH LTD.
Box 1053, Armdale Station
Halifax, Nova Scotia B3L 4L5
Canada

MTS 100

Operating System: RSX, RT-11

Keywords: • Process control • Production control
• Quality control • Shop floor control

MTS 100 is an engineering and manufacturing evaluation and control system for industries that manufacture semiconductors, printed circuit boards, and complete integrated electronic products. The system assists engineering and manufacturing in the process, cost, equipment, production, factory control, and yield improvement.

The features of this relational data base system include:

- Complete production scheduling, planning, and control capabilities, with plan-variance reporting and action recommendations
- Floor inventory tied to direct usage and material movement and bottlenecks reported for people and equipment, based on generated standards and real-time situations
- Complete cost planning and control capabilities for direct and indirect labor and material

- Extremely powerful process control and engineering capabilities and handling of several levels of data: in wafer, wafer to wafer, lot to lot, or components, boards, subassemblies, and so on
- The ability to define data, units, scale multiplier, and valid and specification limits, plus the provision for performing calculations on data and treating the calculated values as original data
- Comparisons of data against internally generated standards for cycle times, costs, equipment uptimes, scrap and rework rate, and yields and reporting on any out-of-control or out-of-specification situations, with material disposition feedback
- Easy selection and reporting of data, plus powerful statistical analysis capabilities
- Provision for machine interfaces for data gathering and equipment control
- The ability to easily define and install custom versions of the system and easily modify and expand the system

A version of this product is available for the VAX computer.

Price: \$35,000 – \$175,000

Contact: Brian Taylor

(617) 263-3408

MICROPRODUCT TECHNOLOGY SOFTWARE, INC.

945 Concord Street

Framingham, MA 01701

NC Tape Verification for Manufacturing Operations

Operating System: CTS-300, RSX, RT-11

Keywords: • CAD/CAM • Pre- and postprocessors
• Production control

This system provides production drawings for checking and verifying the dimensions of the part to be stamped and for correcting tooling setup and machine operations before punching operations are initiated. The program saves production down time and set-up time, thereby increasing the use of NC equipment. The user/machine interface prompts help the operator in data entry. The system features drawing annotation and legends, scaling, part development dimensions, and a description of the turret tooling to make the part. The description verifies the NC tapes by generating a finished drawing to the resolution of .005".

The system uses the standard tape generated by the tape-preparation system. Use of that tape eliminates any intermediary tapes or tape-handling operations. No errors occur in producing and verifying the final tape. The tape used by the NC machine will be drawn by the NC verification drawing system.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Joseph F. deSpautz
(609) 234-3666

APPLIED DIGITAL COMMUNICATIONS, INC.
214 Flynn Avenue
Moorestown, NJ 08057

NCPRO™

Operating System: RSX, RT-11

Keywords: • CAD/CAM • Graphics • Programming tools

NCPRO is a menu-driven, interactive graphics part programming system. NCPRO's system features:

- The ability to read and use existing tapes
- Brief user responses that eliminate detailed statements and automatically generate NC tape blocks
- User-defined NC formats that eliminate the need for postprocessors
- Embedded mathematics that eliminate manual calculations
- Reformatting of existing tapes, including circular interpolation, leading and trailing zeros, and absolute to incremental
- Automatic generation of lathe roughing cuts
- Pocketing routines, including islands
- Define Toolpath, which allows creation of several NC tape blocks at one time, with minimal user responses, as well as reverse Toolpath from existing tapes
- Digitizing, which allows graphic determination of coordinates on existing tapes
- The ability to adjust tool radius compensation
- Drilling, boring, and tapping cycles for machines without those canned cycles or the ability to maximize available cycle use
- Macro capability for fast programming of repetitive sequences
- Networking with NCNET, a field-tested DNC that eliminates the need for punched tape

NCPRO features include a full-function editor and menu-oriented graphics; graphic program display and verification of tool motion; backplotting, which permits use of existing tape library without reprogramming; descriptive error messages and help prompts; single- or multiuser capability; remote location and communications capability; support for complex multiaxis machine tools, as well as for popular routines for lathes, mills, machining centers, EDMs, punches, and other machine tools; full plotter capabilities; and a dot matrix printer and a tape reader punch.

NCPRO is fast and easy to learn, thereby improving NC/CNC productivity. With more than 2000 RWT installations worldwide, NCPRO offers field-proven reliability.

A version of this product is available for the VAX computer.

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Price: \$20,000 - \$40,000

Contact: Cole Oehler

(312) 952-1710

RWT CORP.

415 West Golf Road, Suite 28

Arlington Heights, IL 60005

NCTAPE (Numerical Control Tape Processing System)

Operating System: RSX

Keywords: • CAD/CAM • Data collection • Graphics

Distribution media: 9-track 800/1600 bpi magnetic tape, RL02, RX01, RX02.

NCTAPE allows an NC programmer to create or modify NC programs quickly and easily. NC programs are created from a computer-controlled measurement of a part, using a coordinate measuring machine and digitizer. Programs using linear and circular interpolation or linear interpolation may be created. Sequence numbers are generated automatically. Paper tape copies of a program may be punched in either RS244 or ASCII character code. An NC program may be modified to produce a part either larger or smaller than the original part. An NC program may also be modified to produce several parts. An inspection program allows the dimensions of a part to be compared with the dimensions of a previously digitized part. NCTAPE is written in FORTRAN.

A version of this product is available for the VAX computer.

Price: \$6000

Contact: Kenny Purcell/Jim Levie

(205) 536-8581

REMTECH, INC.

2603 Artie Street

Huntsville, AL 35805

NICAM III (Numeridex Integrated Computer-Aided Manufacturing)

Operating System: RSX, RT-11

Keywords: • CAD/CAM • Engineering • Metals

This advanced NC/CNC programming system contains an automated formatter, advanced machine define capability, automatic tooling, motion, and other advanced control logic. NICAM III applies to the computer-aided manufacturing metalworking industry.

The system is easy to use and flexible to accommodate first-time NC programmers with the help file of 44 fixed definitions. More advanced NC programmers will appreciate the free-formatting option of the Numerical Control System (NCTS) geometry. Both methods of programming provide rapid response time with immediate graphics verification. Both color and monochrome interactive graphics are offered with the system. Business software is optional.

The system is supported through software maintenance and comprehensive easy-to-read user-oriented manuals. NICAM III can interface with most CAD/CAM systems to give manufacturing engineers a system that can accept a design data base file and process the information into NC machine-usable data (punched tape) or Direct Numerical Control (DNC) interface.

A version of this product is available for the VAX computer.

Price: \$20,000 - \$35,000

Contact: Mike Donnelly or Greg Altman
(312) 541-8840

NUMERIDEX INC.

P.O. Box 11000

Wheeling, IL 60090

NUFORM Level I

Operating System: RSX

Keywords: • CAD/CAM • Pre- and postprocessors
• Shop floor control

Distribution media: magnetic tape, RL01, RL02, TU58 DECtape II cartridge.

This comprehensive system, consisting of a universal processor and postprocessors, prepares tapes and control data for N/C tools used in the 2½-axis mode. That mode is generally used for 3-, 4-, and 5-axis machining centers with two axes in continuous and simultaneous motion and all other axes in a positioning mode only, except for ramp cuts, and so on. The same philosophy and the same input handle 3-, 4-, and 5-axis machining centers, 2- and 4-axis lathes, point-to-point, punch presses, grinders, wire elox, flame cutters, and lasers. For example, the user does not have to learn a different system for lathes or punch presses, and so on.

The brief parameterized all-numeric input eliminates the heavy syntax and other troublesome characteristics of the alphanumeric systems and drastically reduces programming time and computer running time. The NUFORM system handles the full spectrum of geometrics, methods, and machining operations.

Available with NUFORM Level I are a plot of coordinates used in defining the part; cutter center line plots in XY, XZ, YZ, including tool size and position plot for drill cycles; isometric and perspective plots; lathe and punch press plots; and an unfolding plot for machining centers with rotary tables.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: A. S. Thomas
(617) 329-9200

A. S. THOMAS, INC.
355 Providence Highway
Westwood, MA 02090

NUFORM Level II

Operating System: RSX

Keywords: • CAD/CAM • Pre- and postprocessors
• Shop floor control

Distribution media: magnetic tape, RL01, RL02, TU58 DECtape II cartridge.

This interactive design tool for complex geometries, consisting of a universal processor and a postprocessor, handles 3-dimensional contouring in which three, four, or five axes may move simultaneously and continuously. The 3-dimensional plot capability permits the user to view the object at any desired orientation. The system is applicable to sculptured surfaces, such as airfoils, swarfing, and all 3-dimensional complex geometries (dies, molds, patterns, and so forth). The system has the full capability of blending surfaces and orienting the tool axis to any desired attitude with respect to the surface or surfaces.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: A. S. Thomas
(617) 329-9200

A. S. THOMAS, INC.
355 Providence Highway
Westwood, MA 02090

OIR MultiCapp Process Planning/Classification and Coding

Operating System: RSX

Keywords: • CAD/CAM • Electronic

This production-proven computer-assisted process planning system is easy for process planners and other manufacturing personnel to use. This on-line system for retrieval, maintenance, and standardization of process planning information includes detailed part information, routing information, and manufacturing instructions. OIR MultiCapp can be integrated with a company's existing MRP system or other CAD/CAM applications.

Included within the standard OIR MultiCapp package is the flexible OIR MultiClass Classification and Coding system, which allows the user to create and use multiple Group Technology classification and coding structures. OIR MultiClass comes with a code for machined and sheet metal parts; other applications include tooling, assemblies, electronics, and electromechanical parts, as well as in-house or preexisting code structures. OIR MultiClass makes the OIR MultiCapp Process Planning system useable by a wide variety of functions in the manufacturing environment.

The MultiClass Code Number is the key that allows the process planner to retrieve process plans for parts that are the same as or similar to the one on which the process planner is working. That code number can also provide the information necessary for a Group Technology approach to manufacturing standardization.

Additional modules that expand the usefulness of OIR MultiCapp include OIR Automated Time Standards, OIR Tool Tracking and OIR Mass Update.

A version of this product is available for the VAX computer.

Price: \$95,000

Contact: Julia Herbert

(617) 890-4030

OIR (ORGANIZATION FOR INDUSTRIAL RESEARCH)

240 Bear Hill Road

Waltham, MA 02154

OIR MultiGroup Group Technology Analysis

Operating System: RSX

Keywords: • CAD/CAM • Electronic

The OIR MultiGroup series of analytical and reporting programs provide the information necessary to standardize and optimize a user's CAD/CAM operations. OIR MultiGroup facilitates mass-production economies and efficiencies in batch environments. The system groups similar parts into families for more efficient treatment in design and production. Specific benefits of MultiGroup analysis include standardized routings, optimal machine tool usage and arrangement, manufacturing and design standards, reduced rework and scrap rates, and minimized throughput time.

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The MultiGroup package includes the OIR MultiClass Classification and Coding system, which provides the structure that enables MultiGroup to work with multiple code structures for machined and sheet metal parts, tooling, assemblies, electronics, and electromechanical parts, as well as in-house or preexisting code systems.

A version of this product is available for the VAX computer.

Price: \$107,000

Contact: Julia Herbert
(617) 890-4030

OIR (ORGANIZATION FOR INDUSTRIAL RESEARCH)
240 Bear Hill Road
Waltham, MA 02154

OIR MultiTreeve Design Retrieval System

Operating System: RSX

Keywords: • CAD/CAM • Electronic • Graphics
• Purchasing

This system provides an interface among classification and coding, Group Technology, and computer graphics. OIR MultiTreeve makes it possible to quickly and easily retrieve design and manufacturing information on a computer graphics terminal by providing a means of identifying and retrieving existing parts that are the same as or similar to new parts in design, based on shape and manufacturing characteristics.

The key to the system is the OIR MultiClass Classification and Coding module, a highly flexible software system that allows the user to build and use up to 11 code structures, including codes for machined and sheet metal parts, assemblies, electronics, purchased parts, and tooling. Thus, OIR MultiTreeve can be used by many functions in the design and manufacturing environment.

A version of this product is available for the VAX computer.

Price: \$75,000

Contact: Julia Herbert
(617) 890-4030

OIR (ORGANIZATION FOR INDUSTRIAL RESEARCH)
240 Bear Hill Road
Waltham, MA 02154

OMNICONTR® and OMNIPREP®

Operating System: Independent

Keywords: • CAD/CAM • Data collection • Process control
• Shop floor control

OMNICONROL is a CAD system for large and small facilities. It distributes tape code data to machines and collects shop floor information. Hardware and software work together to solve machine tool application problems. The system's major components are the host module, behind-the-tape-reader interface, data display terminal, DNC increment, and program call-up box.

OMNIPREP tape preparation systems eliminate the costly process of manual tape preparation. OMNIPREP systems use SPLIT® programming language and are designed as flexible, low-cost disk-based systems that will reduce the time required to generate an NC part program. The system's major components are a line printer, plotter, tape/reader punch, data display terminal, and either a hard or a floppy disk drive.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$100,000

Contact: Robert J. Samson, Vice President, Sales and Marketing
(815) 229-4300

WCI — CONTROLS AND DATA SYSTEMS
527 Colman Center Drive, P.O. Box 7030
Rockford, IL 61125

Oscar

Operating System: RSTS, RSX, RT-11

Keywords: • Cost accounting • Inventory

This sophisticated package for stock control and recording enables you to keep inventory overhead under tight control. Oscar can handle parts explosions and detailed costings. Information can be either displayed instantly on the screen on a conveniently located computer terminal or printed out as hard copy.

Oscar, aimed primarily at the small to medium-size manufacturing company faced with controlling valuable stock in an assembly building environment, contains English-like language, parts explosion, advance stock allocation, kit issue, on-line inquiry, cross-referencing, costing, and security.

A version of this product is available for the VAX computer.

Price: £4000 – £9000

Contact: R. A. Stock
(444) 734-342666

D. M. ENGLAND & PARTNERS LTD.
Tudor House, 24 High Street
Twyford, Berkshire RG10 9AG
England

PC/DBS (Process Control Data Base System)

Operating System: RSX

Keywords: • A/D, D/A • Instrumentation • Process control
• Signal processing

PC/DBS simplifies the design, implementation, and documentation of process automation systems for both industrial plant and laboratory systems. The package focuses on developing control strategies. The user defines and names process elements in simple input statements that PC/DBS uses to create a data base. Process elements are sorted and stored in a name table accessible to all PC/DBS programs. User-defined alarms and control strategies are subsequently added to the data base.

Specifically designed for DIGITAL computers, PC/DBS is compatible with both PDP-11 and LSI-11 CPUs (running under RSX-11M Version 4.1), as well as with the KineticSystems LSI-11/23-based microcomputer system and full line of standard CAMAC (IEEE-583) process interface modules. Use PC/DBS to control, alarm, display, simulate, report, monitor, trend, document, scan, and log. The system features English-like control statements, self-generated documentation, high/low limits checking, multiple CRT/multiple access, conversion to engineering units, and remote debugging/diagnostics.

Price: \$14,000 - \$25,000

Contact: Roderick H. Wischermann
(815) 838-0005

KINETICSYSTEMS CORP.
11 Maryknoll Drive
Lockport, IL 60441

Perspective/700 Bill of Materials System

Operating System: RSTS

Keywords: • Bill of materials • Cost accounting • Inventory
• Order entry

This system lets the user define parent items or finished goods and their associated kits, assortments, subassemblies, or raw-material components. Parent item numbers are verified against the Perspective/700 inventory control master file. A bill of material cost listing can be generated on demand, with item description and costs extracted from the inventory master file. An optional depletion processor can relieve component inventory based on posting of finished goods receipts.

The Materials Requirements Report (MRP) forecasts inventory requirements (finished goods, kits, assortments, and, optionally, raw materials). When combined with Perspective/700 Customer Order Processing and Purchasing systems, a fully automated system is achieved. MRP allows the user to define up to six time frames, based

on date ranges, for reporting purposes. Reports include the multilevel bill of materials, bills costed at current or standard, the where-used report, decimal components quantities, the regenerative material requirements report, and multiuser/multicompany report.

A version of this product is available for the VAX computer.

Price: \$2000 - \$5000

Contact: Michael B. Andelman, President
(312) 953-2220

LIOCS CORP.

246 E. Janata Boulevard
Lombard, IL 60148

PICAM

Operating System: RSX

Keywords: • Cost accounting • Information management
• Inventory • Shop floor control

This new MRP package for smaller manufacturing firms is extremely flexible and can be installed easily by personnel who have little or no data processing experience. PICAM's design ensures that no special data processing skills are required. Current personnel, with proper education in the use of MRP methods, will be able to operate PICAM.

PICAM's capabilities include MRP processing, master scheduling, rough-cut capacity planning, maintenance of item master records, bill of material maintenance, order entry and shipping dispatch, shop order processing with manufacturing text capability, capacity-requirements planning, shop floor control (including job time collection), and cycle counting.

Basic capabilities are the same on any of the compatible PDP-11 models. Companies having larger operations or more users can be accommodated with one of the larger PDP-11s. Smaller firms will benefit from the low initial investment required to support PICAM.

Price: \$25,000

Contact: Allen Duberstein
(412) 831-8870

PINE INSTRUMENT CO.

3345 Industrial Boulevard
Bethel Park, PA 15102

Pioneer COMMAND Bill of Materials Processor Module

Operating System: RSTS

Keywords: • Bill of materials

This module, developed by Pioneer Software International, is interactive, on line, user friendly, and comprehensive. The system can create and maintain bills of material, which can include assemblies and subassemblies down to a maximum of 99 levels. The module is an integral part of Pioneer's COMMAND System for Financial Management, Distribution, and Manufacturing. Pioneer's COMMAND system is written in BASIC-PLUS-2 and requires a minimum of 64K words. Because the system is based on Userware International's USER-11 Database Management System, extensive on-line inquiry and ad hoc reporting are available.

The bill of materials processor, combined with the parts master file, gives, for any particular assembly, a list of all subassemblies, purchased parts, and raw materials involved in its manufacture and shows the required quantities and costs of each. A structure file is maintained that links each assembly part to its components and allows searching in both directions through the assembly structure. Where-used information can be produced automatically. Ghost or phantom assemblies are supported. Provisions are made to copy a structure, allowing for same-as-except structures. Mass replacements and deletions are allowed. Screen displays include indented and single-level explosions, indented and single-level where-used, and trial kitting. Numerous reports are available, including indented and single-level explosion, single-level and summarized where-used, incremental and accumulated cost, and stock status.

A version of this product is available for the VAX computer.

Price: \$6000 - \$12,000

Contact: Jered Cady, Vice President, Sales and Marketing
(619) 745-6006

USERWARE INTERNATIONAL

2235 Meyers Avenue

Escondido, CA 92025

Pioneer COMMAND Material Requirements Planning Module

Operating System: RSTS

Keywords: • Inventory • Materials handling • Purchasing

This module, developed by Pioneer Software International, is a part of Pioneer's COMMAND System for Financial Management, Distribution, and Manufacturing. Pioneer's COMMAND system is written in BASIC-PLUS-2 and requires a minimum of 64K words. The module requires the Bill of Materials Processor. Because the system is based on Userware International's USER-11 Database Management System, extensive on-line inquiry and ad hoc reporting are available.

The MRP system works on a regenerative basis, on either a daily or a period basis. Typically, MRP reports are generated on a regular basis somewhere between a week and a month. When the MRP build is started, the operator can include open sales orders, current purchase and work orders, and the master forecast. The system allows several different reorder policies to be used, from a simple replacement of parts used to a sophisticated EOQ/Minimum Inventory level based on previous usage. A variety of screen displays are available, including the review of all data used in generating usage schedules for a given item. Numerous reports are available, including requirements planning detail, planned purchase orders, planned work orders, and value of purchase orders by periods.

A version of this product is available for the VAX computer.

Price: \$6000 - \$12,000

Contact: Jered Cady, Vice President, Sales and Marketing
(619) 745-6006

USERWARE INTERNATIONAL

2235 Meyers Avenue

Escondido, CA 92025

Pioneer COMMAND Production Control Module

Operating System: RSTS

Keywords: • Production control • Project management
• Scheduling

This module, developed by Pioneer Software International, is an interactive, on-line, user-friendly system consisting of work order processing and costing, routing, and work center loading. The Production Control module is a part of Pioneer's COMMAND System for Financial Management, Distribution, and Manufacturing. Pioneer's COMMAND system is written in BASIC-PLUS-2 and requires a minimum of 64K words. Because the system is based on Userware International's USER-11 Database Management System, extensive on-line inquiry and ad hoc reporting are available.

The Production Control module provides a means of managing the generation, progress, and closing of work orders in a batch assembly and manufacturing environment. Because this module is part of the COMMAND system, it is normally installed with the Bill of Materials Processor and Inventory Management modules. The work order processing and costing system provides a basis for controlling work in progress on a batch or a job basis. Work orders may be created manually, from a bill of materials or from routings. Extensive provisions are available for modifying, scheduling, and rescheduling work orders. The routing system allows the operator to detail both components and operations into job steps. Those routings, combined with the work order information and manpower information, are used by

the Work Center Loading module to schedule jobs across work centers. A variety of screen displays are available, as well as numerous reports.

A version of this product is available for the VAX computer.

Price: \$6000 - \$12,000

Contact: Jered Cady, Vice President, Sales and Marketing
(619) 745-6006

USERWARE INTERNATIONAL

2235 Meyers Avenue

Escondido, CA 92025

PMC-11 (Real-Time Process Monitoring and Control System)

Operating System: RSX

Keywords: • A/D, D/A • Graphics • Process control
• Production control

PMC-11 maintains an image of an external continuous process and recognizes and reacts to significant changes according to strategies defined by the process engineer. Message generation and alarm handling are provided. PMC-11 displays the process in any number of pictures on graphics color monitors. The operator can control the process through an operator interface to enter set point values, on/off switching, select pictures, and others. Closed-loop supervisory control as well as historical data collection are part of PMC-11.

The user need only describe the process data to obtain a running system by an automatic generation procedure. If unusual monitoring and control procedures are required, the process engineer can implement them as special user-programmed actions, since PMC-11 also has an external FORTRAN interface.

Descriptions and programming are based on external process names, that is, customer name. PMC-11 can run on distributed systems and supports up to thousands of digital and analog channels, using DIGITAL's standard I/O systems MIOS or CMR.

Price: \$36,000

Contact: Bodo Klawitter
089/9591-1197

DIGITAL EQUIPMENT GMBH

Freischutzstrasse 91

8000 Munchen 81

West Germany

PMCS (Process Monitoring and Control System), Version 1.0

Operating System: RSX

Keywords: • Engineering • Instrumentation • Process control
• Real time

Memory required: 256KB. Distribution media: 9-track 1600 bpi magnetic tape, RK07, RL02.

This product provides real-time monitoring, display, alarm, reporting, and control of continuous industrial processes on the RSX-11M operating system for up to eight operator stations. Color graphics include live-updated process flow graphics display of current values and alarms.

PMCS supports user-written FORTRAN subroutines with full access to the data base. Data base definition is through interactive CRT, with fill-in-the-blanks forms to specify variable names, scan frequencies, control gains, and so on. Optional functions include supervisory-level control with feedforward or feedback.

The system performs time-scheduled scans of analog and digital process inputs and converts process units into engineering units. Plus, chainable general equations are used for calculations, such as calculating a value as a function of six selectable terms or for decision making and initiating the processing of variables on a special basis.

This software reduces the overall cost and time to complete projects by enabling the user to concentrate on the industrial application rather than on writing software programs.

Refer to SPD #14.75.00 when requesting further information on this product from your local DIGITAL sales office.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Consult your local DIGITAL sales office (see Introduction).

PMS (Preventive Maintenance Scheduling System)

Operating System: RSTS

Keywords: • Maintenance • Metals • Scheduling
• Warehousing

This system provides maintenance scheduling, repair parts and warehouse parts inventories, backlogs, repair history, parts reorder notification, equipment performance, equipment costs, and history recall by keywords. The user-friendly interface enables non-data processing specialists to use the system. The user-defined system allows scheduling of maintenance by calendar or by miles, tons, and so on. PMS services multiple users and uses file sharing and on-line update and inquiry. The system is supported by 1200 baud modem.

The software may be purchased separately, or the system is available as a turnkey system with the hardware, operating system, application software, and data files "pregenerated" and ready for data entry.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: William E. Walo

(702) 384-7641

SIMCO, INC.

801 S. Rancho Drive, Suite E2

Las Vegas, NV 89106

P/O (Purchase Order and Receiving), MCBA, Inc.

Operating System: CTS-300, RSTS, RT-11

Keywords: • Distribution • Purchasing

P/O helps ensure that the correct quantity and quality of material are available when needed and wanted. Improved methods of vendor analysis help reduce shortages as well as the delivery of off-standard material.

P/O facilitates better use of the buyer's time. Time-consuming semiclerical activities are reduced or eliminated. The buyer thus spends more time seeking a better price while maintaining reliable sources of supply. The cash requirements for accounts payable can be developed from purchase orders.

Receiving significantly reduces the overall time from receiving to stores. Critical material can be delivered to the correct designation more quickly. Where information or documents are missing, P/O provides extensive information to help identify the receipt.

P/O, which requires MCBA's Inventory Management (I/M) and Accounts Payable (A/P), allows on-line entry and editing of purchase orders and receipts, supports blanket purchase orders and scheduled receipts reporting, prints purchase orders, provides powerful vendor analysis and on-line cash requirements inquiry, allows the user to report rejects at receipt time, notifies the user when early shipments and over/under shipments occur, supports multiple vendors for each item, allows for preentered table-driven notes and manually entered notes for each purchase order and/or line item, interfaces to three other MCBA application packages, and supports multicompanies and password security.

A version of this product is available for the VAX computer.

Price: \$3000 - \$4500

Contact: Sales Representative
(818) 957-2900

MCBA, INC.
2441 Honolulu Avenue
Montrose, CA 91020

PRO (Process-Oriented Software)

Operating System: Independent

Keywords: • Data collection • Process control

This self-contained package for real-time data acquisition and process control contains its own incremental compiler, on-line editor, operating system, run-time library, and I/O drivers in less than 16K words. Scanning, alarming, and either direct digital or supervisory control are readily invoked on-line, by entering only the required I/O specifications and control parameters, as are algorithms for such functions as digital filtering, lead-lag, and delay time. Special calculations, sequential control, log formatting, special displays, and other user-defined tasks are provided for using an English-based language similar to BASIC, thus enabling system tailoring to specific applications. All user interaction and editing may be done on line using PRO's high-level language. PRO combines ease of use of an interactive interpreter, such as BASIC, with the speed and efficiency of FORTRAN in a system small enough to use PDP-11 or LSI-11 hardware, without memory management or bulk memory, thus minimizing cost and increasing reliability for small systems.

Price: \$5000 - \$7500 +

Contact: Mary T. Gibson
(619) 453-0303

STAFF COMPUTER TECHNOLOGY CORP.
10457-J Roselle Street
San Diego, CA 92121

PROFITKEY® Job Shop System

Operating System: RSX, ULTRIX-11, UNIX* (Version 7)

Keywords: • Information management • Management
• Production control • Scheduling

The PROFITKEY Job Shop System is a proven management tool that provides the user with the up-to-date information needed to more effectively plan, schedule, and control the manufacturing resources to achieve better efficiency and higher profits. PROFITKEY is a highly interactive, easy-to-use system that is designed to be installed and used by a job shop without requiring additional personnel. No computer expertise is required to implement

and operate the system. From small job shops to major machine shops, PROFITKEY has provided the solution to delivery problems, shop floor control, and company productivity.

PROFITKEY is modular to meet the unique requirements of each user. The modular design brings a complete information system within economic reach of smaller companies and allows the user to expand in a planned and orderly fashion.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$6000 - \$24,000

Contact: W. W. Dockins

(305) 743-7400

KEY SYSTEMS, INC.

Box 1319

Marathon, FL 33050

PROFITKEY® Manufacturing Control System

Operating System: RSX, ULTRIX-11, UNIX* (Version 7)

Keywords: • Inventory • Order entry • Production control
• Scheduling

PROFITKEY gives chief executive officers and their staffs the tools required to plan and control company efficiency, thus maximizing profits. This on-line interactive system will help your company reduce inventory and overtime and increase cash flow, customer service, and direct labor output. PROFITKEY provides the tools for master scheduling, materials requirements planning, shop floor control, and purchasing and the supporting financial and accounting functions.

PROFITKEY is a transaction-driven, user-oriented system that provides four exclusive displays, as follows:

- The MASTER SCHEDULER'S WORKBENCH® display provides the tools to develop and change the master schedules, forecasts, and planning bills as required.
- The PLANNER'S WORKBENCH® display provides the tools to firm, release, and reschedule orders and to inquire for the status of any requirement, order, item, or bill of material.
- The DISPATCHER'S WORKBENCH® display provides the tools to inquire and update operations, routings, and work center loads.
- The PURCHASING WORKBENCH® display provides the tools to inquire and update purchasing and vendor information.

PROFITKEY will run on any hard disk system using Ryan McFarland COBOL, including microcomputers.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$6000 - \$32,000

Contact: W. W. Dockins

(305) 743-7400

KEY SYSTEMS, INC.

P.O. Box 1319

Marathon, FL 33050

PROMIS (Process Management Information System)

Operating System: RSX

Keywords: • Decision support • Engineering
• Production control

This complete computer-aided engineering and production system for semiconductor manufacturers provides process and recipe management, production and inventory planning and control, routing and tracking of work in process, production reporting, facilities monitoring and control, and direct automated interfaces, using SECS protocols to production and test equipment.

Engineering analysis tools include frequency distribution reports for engineering data, trend reports, correlation plots, performance charts, initialization reports, scatter plots, control charts, and facilities history plots. The production and inventory control system includes production scheduling, capacity planning and control, material planning and control, work center loading, priority planning and control of work in process, inventory control, and standard costing. What-if simulation allows users to predict the effects of proposed changes in product mix, required completion dates, expected yields, equipment capacity, standard lead times, overtime, number of shifts, and so on.

Reports are provided on planned versus actual completions, forecast versus planned completions, work in process, inventory, production activity, performance to schedule, throughput performance, yield variances, reworks, rejects, slow-moving lots, equipment availability, equipment usage, facility sensor current readings and limits, off-normal summaries, lot history analyses, and so forth.

A version of this product is available for the VAX computer.

Price: \$70,000 - \$350,000

Contact: Doug Scott

(416) 364-5361

I. P. SHARP ASSOCIATES LTD.

2 First Canadian Place, Suite 1900

Toronto, Ontario M5X 1E3

Canada

PROSCON (Process Control and Management System)

Operating System: RSX

Keywords: • Data collection • Metals • Process control

This system provides software for industrial data acquisition, monitoring, process control, and management and includes programs for process research and modeling. PROSCON runs in LSI-11 PDP-11 multiprocessor environment and has special programs for mineral concentrator control, submerged arc furnace modeling and control, hydrometallurgy, blast furnace energy consumption optimization, and mine ventilation control.

Price: Available upon request

Contact: Tom Pahlman
(90) - 4211

OUTOKUMPU OY
Engineering Division, P.O. Box 27
02201 Espoo 20
Finland

Purchase Order Processing

Operating System: RSX

Keywords: • Accounting • Information management
• Inventory • Purchasing

This module processes purchase orders for mailing, tracks open commitments, records material receipts, and prints a variety of reports, including open P.O. summary, expediting, receiving, and cash requirements. The module can be operated independently or as part of a fully integrated system, interfacing automatically with one or more of the following: accounts payable, for matching invoices to purchase orders and reducing open commitments; inventory control, to increase inventory when material receipts are recorded and to show material on order on inventory reports; and job cost, to reflect open commitments and/or material receipts on job cost reports. Operation is fully interactive, with reports and video screen displays available on demand.

A version of this product is available for the VAX computer.

Price: \$4000

Contact: Janna McMillan
(617) 275-5810
BREUER & CO.
54 Middlesex Turnpike
Bedford, MA 01730

QMS PROGRAMS™

Operating System: RSX

Keywords: • Quality control • Statistics

Distribution medium: magnetic tape.

This integrated set of computer program modules manages quality-control information, providing for the on-line collection, documentation, storage, reporting, and analysis of quality test and inspection results. Unique features include the PROTOCOL dialog, which allows users to tailor any number of QC applications in a single system; data entry from a variety of devices, including a compatible automatic screen-generation module, EZDATA; interactive reporting and/or statistical analysis capabilities in a variety of user-controlled formats; on-line help messages; simulation capabilities that allow what-if games with new-product startups; and built-in graphics.

A version of this product is available for the VAX computer.

Price: \$8000 – \$45,000

Contact: John Sivertson
(609) 924-7904

JOHN A. KEANE AND ASSOCIATES
575 Ewing Street, Research Park
Princeton, NJ 08540

QUOTE (Manufacturing Cost Estimating)

Operating System: RT-11

Keywords: • Cost accounting • Financial planning
• Sales and marketing • Simulation

Distribution medium: RX02.

These 14 programs can be used by either sales or accounting departments. The program QUEST produces a price quote that looks like a financial statement. The user enters the number of hours required in six labor categories plus the cost of the parts that will be used. The computer then adds engineering, production, sales and G&A overheads, plus estimated taxes and profit, to compute your selling price. Labor rates and overhead rates are stored in the program and can be changed by the user when needed. This program package is ideal for the job shop type of business.

Program QUOTE2 allows you to determine a standard discount rate for your product line by computing the production learning curve in your shop. The program then computes 17 price breaks covering 1 to 10,000 units. This program also allows you to estimate your competitor's discount schedule.

Other programs in the package compute and print out discount schedules and price breaks for various price curves in the quantities you specify.

The easy-to-use programs are written in BASIC-11. They may work on RSX and RSTS systems supplied with special utilities. On-site support is available. A manual is included.

Price: \$350

Contact: Raymond H. Green, President
(813) 360-1967

RAY GREEN AND ASSOCIATES
603 55th Avenue
St. Petersburg Beach, FL 33706

RCS-7

Operating System: RSX

Keywords: • Petroleum • Process control • Real time

This real-time monitor and control system is suitable for SCADA and process control applications. Because of its generic design as a base-line system, RCS-7 is a good solution to monitor and control applications and for systems from PDP-11/23s to dual-redundant VAX-11/780 configurations. RCS-7 provides a user-friendly operator interface for nonprogrammer users and features color graphics user/machine interface, data acquisition and processing, alarms monitoring, event logging, supervisory control, on-line display generation and acquisition, and an applications interface.

The optional subsystems offer automatic failover for redundant configurations, a calculation processor, dot-addressable trending, and historical data collection.

A version of this product is available for the VAX computer.

Price: \$15,000 - \$60,000

Contact: David J. Osina
(713) 666-2701

SGM, INC.
8830 Interchange Drive
Houston, TX 77054

Real-Aid

Operating System: RSX

Keywords: • Materials handling • Process control • Real time
• Shop floor control

Real-Aid, written in FORTH, provides a framework on which specific applications can be built for real-time control in many environments, such as security systems, data acquisition and recording, materials handling, shop-floor data control, automated warehousing, process control, testing beds, and production line control. Standard facilities are offered for disk and VDU control, simulation, alarm

acknowledgment, mimic diagram, communications, alarm display, data acquisition, control output, alarm checking, diagnostics, logging, stand-by, and application logic.

Price: £5000 – £20,000

Contact: M. J. Bradley

0905 53335

STAVELEY COMPUTING

Blackpole Road

Worcester WR3 8TH

England

Real-Time Production Monitoring System

Operating System: RT-11

Keywords: • CAD/CAM • Data collection • Production control
• Shop floor control

This system continuously and automatically monitors the performance of machines, jobs, and operators. Production count is obtained directly from the machine through sensors that indicate that a part has been produced. Unique terminals at each machine provide for communications and down-time control. Real-time VT displays include plant status (running or down and reason) and summaries of down time and production. Output data is provided for production reporting, daywork/incentive measurement, and inventory accounting.

Price: \$45,000 – \$90,000

Contact: R. Kissner

(914) 948-4300

INFORMATION AUTOMATION INC.

925 Westchester Avenue

White Plains, NY 10604

SCHED (Manufacturing Scheduling System)

Operating System: RT-11

Keywords: • Order entry • Production control • Scheduling
• Shop floor control

Distribution medium: RX02.

This sales tracking and production control system is designed to give you the status of any job in your manufacturing process. The system, designed primarily for the job lot manufacturer, is ideal for handling up to 2000 work orders or job lots each year but can be modified to handle many more.

All orders are entered when received, and a production work order that starts your process is printed. Due dates for material and three interplant departments are assigned. As your product moves through your plant, you enter, on your terminal, the dates work is completed

in each department. When units are shipped, the accounting department enters those from their invoices, along with the value. When a job lot is completed, the value of the lot is checked against the lot value recorded on the original order entry.

Monthly reports can list all orders received, all units shipped, the value of work in process for each month it is due, and the total value of work in process. You can also look up the status of any job in your plant or print out a listing of the status of the jobs in your plant.

Other options allow you to look up by customer name the status of the jobs in the plant for that customer and to look up orders by customer purchase order number. You can also print a report of the percentage of on-time versus late shipments.

These programs are written in BASIC-11. You might be able to use them on RSX and RSTS operating systems through special utilities. A user's manual is also provided, and on-site support is available.

Price: \$1950

Contact: Raymond H. Green, President
(813) 360-1967

RAY GREEN AND ASSOCIATES
603 55th Avenue
St. Petersburg, FL 33706

SETCON: Process Control Software for Industrial Processes

Operating System: RSX

Keywords: • Graphics • Process control • Shop floor control

Memory required: 512KB. **Distribution media:** magnetic tape, RL02.

This data acquisition and control package, written in FORTRAN and developed for industrial computer applications, runs under real-time operating systems. SETCON has a memory-resident data base and uses an 8-color CRT as its main interface between the user and the process. Two levels of passwords are built into the package to protect the system from modifications by unauthorized personnel. Process control algorithms, history collection and trending, and a report subsystem are featured.

A version of this product is available for the VAX computer.

Price: \$25,000 - \$60,000

Contact: Jorge Llansa
(713) 496-3220

SETPOINT, INC.

950 Threadneedle
Houston, TX 77079

SFC (Shop Floor Control), MCBA, Inc.**Operating System:** CTS-300, RSTS, RT-11**Keywords:** • Report writer • Scheduling • Security
• Shop floor control

This stand-alone application is a comprehensive and practical shop floor tool for creating and monitoring shop orders and shop floor activity. In addition to interactive entry and editing of shop orders, SFC supports shop bills and shop routings; provides operation-level controls as well as forward, backward, and manual scheduling of shop orders down to the operation level; provides capacity requirements planning and exception reporting to highlight problem areas in the shop; records scrap and rejects; accommodates shop notes; records and accumulates actual material and labor hours used; prints a dispatch list; allows multiple shop orders to be directly connected to a job; supports a daily calendar in month-day-year format cross-referenced to shop days; interfaces to six other packages in MCBA's manufacturing system; and supports security and multicompany capabilities.

A version of this product is available for the VAX computer.

Price: \$4000 - \$6000**Contact:** Sales Representative

(818) 957-2900

MCBA, INC.

2441 Honolulu Avenue

Montrose, CA 91020

SOURCE/MFG**Operating System:** RSTS, RSX**Keywords:** • Accounting • Financial management
• Inventory • Payroll

This on-line, interactive, and completely integrated modular manufacturing control, costing, and planning system is installed in three phases:

- Phase I: Control your manufacturing operation — inventory analysis, physical inventory, customer billing, work orders, labor reporting, material reporting, routings, net material requirements, multilevel bill of materials, and system control.
- Phase II: Cost your manufacturing operation — sales order processing, sales analysis, customer service, purchase order processing, inventory average costing, payroll processing, work order costing, work order budget reporting, and same-as-except-for routings.
- PHASE III: Plan your manufacturing operation — financial planning, master scheduling, material requirements planning, capacity requirements planning, same-as-except-for bill of materials, and new-product estimating.

In most companies, the accounting applications — accounts receivable, accounts payable, general ledger, asset accounting, statement printing, budget printing, and schedule printing — may be installed at any time and therefore are not included in any specific phase. Since the system is modular, you may choose different applications within a phase for your installation.

A version of this product is available for the VAX computer.

Price: \$10,000 — \$100,000

Contact: Peg Chapla, Product Line Manager
(415) 798-0240

COMPUTER SYSTEMS DEVELOPMENT, INC.
300 Ellinwood Way, Suite 160
Pleasant Hill, CA 94523

SPC (Standard Product Costing), MCBA, Inc.

Operating System: CTS-300, RSTS, RT-11

Keywords: • Cost accounting • Purchasing

This comprehensive interactive tool accurately maintains standard or estimated costs for both manufacturing and accounting management. SPC keeps up-to-date current costs for all products, parts, and services provided by a company. Deviations of current costs from planned objectives are identified for management. Since SPC is integrated with MCBA's Inventory Management and Standard Product Routing packages, labor and material figures are automatically kept consistent.

SPC speeds installation by creating the initial cost master file automatically from the item master file; maintains two sets of costs: beginning-of-the-year cost projections (standard) and up-to-date (current) costs; maintains value-added costs at each level of the bill of material and accumulates costs from lower levels of the bill of material; separates both standard and current costs into material, labor, fixed burden, and variable burden; handles multiple departments and work centers with flexible, user-defined tables to define overhead, labor grades, locations, job and cost types, and various status codes; calculates labor for each operation for each item, using the standard routing; uses the current bill of material to build up costs for user-selected items; provides costed bill of material reports in single-level, indented, and summarized formats; provides critical ratios such as gross margin percentages and cost variances; facilitates what-if cost analysis; highlights current purchase prices deviating from the standard material costs on the Purchase Price Variance Report; replaces standard costs with current costs for all or selected items; interfaces to four other MCBA packages; and supports multiple companies and password security.

A version of this product is available for the VAX computer.

Price: \$2500 - \$4000

Contact: Sales Representative

(818) 957-2900

MCBA, INC.

2441 Honolulu Avenue

Montrose, CA 91020

Specialty Manufacturing

Operating System: RSTS

Keywords: • Menu handlers • Order entry • Purchasing

Distribution medium: 5¼" diskette.

This package for industrial manufacturing firms tracks orders from original quotes through final invoice. Features of the system include the ability to configure the system for any production parameters and requirements, a full purchase order module, a complete report menu, an internal invoice and shipping document generator, as well as an interface with the NMI Complete Accounting Package.

Price: \$1495

Contact: Terri Akers

(215) 822-2407

NORTON-MURPHY INTERNATIONAL, INC.

176 Chalfont Road

Chalfont, PA 18914

Spider II Manufacturing Planning and Control System

Operating System: UNIX* (System V)

Keywords: • Cost accounting • Inventory • Production control
• Shop floor control

This fully interactive closed-loop manufacturing control system encompasses production planning, production control, material planning, material control, and cost control. The system's modular approach allows the user to purchase only the applications required. Spider II can also expand into a fully integrated accounting and manufacturing system.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$3300/module - \$7500/module

Contact: Uniq Sales Department

(312) 879-1008

UNIQU DIGITAL TECHNOLOGIES

28 S. Water Street

Batavia, IL 60510

SPM+ (Statistical Process Monitoring System)TM

Operating System: RSX

Keywords: • Engineering • Quality control
• Shop floor control • Statistics

This menu-driven data analysis system, developed to automate the mathematical and managerial functions of statistical process control, provides an interactive data base and operates in a real-time environment. SPM+ is designed for shop-floor applications and can collect, monitor, and analyze data for multiple processes simultaneously. SPM+ is a structured system yet provides enough versatility to maintain current part-routing procedures. SPM+ is an inspection and management tool that automatically displays a control chart each time a subgroup of inspection data is entered from the shop floor.

SPM+ also provides managers with process exception and summary reports and vendor information about purchased materials. The system includes all major control charts for both variables and attributes for data types, capability studies, frequency distributions, and other numerical tests. Existing installations are available for customer reference.

A version of this product is available for the VAX computer.

Price: \$12,000 – \$35,000

Contact: Tom Early

(313) 756-9292

SALERNO INDUSTRIES, INC.

Computer Systems Division

4175 East Ten Mile Road

Warren, MI 48091

SPR (Standard Product Routing), MCBA, Inc.

Operating System: CTS-300, RSTS, RT-11

Keywords: • Maintenance • Process control
• Production control • Report writer

This package creates, maintains, and reports data describing operations, tools, and notes used in standard product manufacturing. SPR, sometimes referred to as the bills of labor package, is oriented toward small to medium-size repetitive manufacturers (make-to-stock/assemble-to-order) and small to medium-size job shops (make-to-order/engineer-to-order).

SPR takes advantage of space-saving techniques, such as general routings and specific routings. General routings are subsets of operations, tools, and notes that are common to more than one product. Specific routings identify sets of operations, tools, and notes that are used to manufacture products. In SPR, several products or items can

use the same routing. Specific routings are complete routings (the route or path a shop order travels when being manufactured) and can incorporate general routings.

SPR accesses all features through menus. SPR can also allow interactive entry and editing of routing data and provide for alternate routings; maintain labor standards at the operation level; support "same-as-except" routings, a way of easily creating a new routing by copying another, and allow routings to be copied into a shop order in MCBA's shop floor control package; support many operation types, including productive (most common), setup, move, rework, and so on; provide routings for multiple locations for each item, tooling information control, and standardization of multiusage operations; facilitate higher accuracy of standards by allowing user-specified location of the decimal point in critical fields; support the user in tailoring standard hours, by piece, by 10 pieces, by 100 pieces, and so on, or n pieces an hour; store notes by operation, which can be used for operational instructions; print routing sheets, routing summary sheets, and the general routing usage report; interface to four other packages in MCBA's Manufacturing System; and support multicompanies and password security.

A version of this product is available for the VAX computer.

Price: \$1500 - \$2500

Contact: Sales Representative
(818) 957-2900

MCBA, INC.
2441 Honolulu Avenue
Montrose, CA 91020

TEC Manufacturing System

Operating System: RSTS, RT-11

Keywords: • Accounting • Distribution
• Financial management • Information management

TEC supplies manufacturing management and financial control systems to discrete manufacturers and job shops. TEC's proprietary software automates inventory control, bill of materials, production control, materials requirements planning, purchasing, order entry/invoicing, sales analysis, accounts receivable, accounts payable, general ledger, and payroll. The system is modular, on line, and fully integrated. TEC Manufacturing System is sophisticated yet easy to use.

ENGLISH, TEC's data retrieval language, allows the user to ask questions of the system and to obtain instant answers either on a terminal display or on a printer. Also available is a prospect tracking system that maintains information on customers and prospects.

A version of this product is available for the VAX computer.

734 Manufacturing

Price: \$3500 - \$9000

Contact: S. A. Levine

(617) 964-3890

TEC COMPUTER SYSTEMS, INC.

30 Tower Road

Newton, MA 02164

TIP (Tankage Inventory and Yields Programs)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Chemical • Inventory • Petroleum

• Report writer

This interactive inventory, transfer accounting, and yield system is designed for refiners and petrochemical companies. TIP provides inventory, yields, and transfer accounting reports within minutes.

Data entry is error-checked at entry time to provide inventory reports at the rate of 3 seconds a tank and transfer reports at the rate of 13 seconds a transfer, entry time included. For a 100-tank refinery, the total process takes about 25 minutes a day. Using the optional AID report writer, nonprogrammers can design and run custom reports with two hours of training.

A version of this product is available for the VAX computer.

Price: \$10,000 - \$14,000

Contact: W. G. Welter

(713) 373-1905

ADVANCED MANAGEMENT TECHNOLOGIES

P.O. Box 71

Cypress, TX 77429

TMS/2000 Tool Management System

Operating System: RSX

Keywords: • Inventory • Materials handling • Metals

• Scheduling

TMS/2000, an inventory management system for the metalworking industry, controls cutting tools and processes the issue, tracking, and return of cutting tools from the tool storeroom. TMS/2000 issues packages of tools for specific manufacturing tasks, such as bill of tools. The bill of tools function allows planners to check the inventory status of all tools on the bill of tools prior to scheduling the job. Programs for allocation, issue, and return of the bill of tools make handling of BOTs easy and efficient.

TMS/2000 checks inventory levels in the tool crib. When inventory levels reach reorder point, the system generates a requisition of tools to be ordered, by vendor. Once a purchase order number is assigned, TMS/2000 tracks the purchase order until received.

A complete menu of management reports is available for tracking and managing inventory. DATATRIEVE is the report generator and creates additional reports.

A version of this product is available for the VAX computer.

Price: \$28,500 - \$68,500

Contact: Ronald C. Hutton, Sr., Systems Sales Manager
(215) 797-6600

STANLEY VIDMAR INC.
Division of The Stanley Works
11 Grammes Road, P.O. Box 1151
Allentown, PA 18105

UCC-APT (Automatically Programmed Tools)

Operating System: RSX

Keywords: • CAD/CAM • Graphics

This system can be used for programming point-to-point and multi-axis contouring applications on mills; machining centers with three, four, or five axes; lathes, including four axes; drills; punch presses; flame cutters; and EDM machines. UCC-APT is available in two upward-compatible configurations. The intermediate level provides the capabilities to program cutter motions relative to 2-dimensional geometry in any nonvertical plane plus a series of enhancements and programming aids to simplify the logical requirements of more elaborate part configurations. The advanced level provides geometric definitions, BSURF or RLDSRF for nonanalytical situations, and, if required, a general conic or quadric definition. Another surface, TABCYL, provides a 3-dimensional curve in space. FORTRAN-like looping commands are also included to simplify the process. The advanced level keeps the cutting tool tangent to a part at all times.

The optional Lathe Module can be added to any level of UCC-APT. This module simplifies programming for lathe parts by using short-cut, shop-type terminology to reduce the coding effort. Roughing, threading, and finishing routines are provided. Optional utilities are also available to punch, read, and verify NC tapes and plot-cutter paths.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Ron Hunt

(214) 655-8930

COMPUTER INTEGRATED MANUFACTURING CO.
1930 Hi Line Drive
Dallas, TX 75207

UDS Job Costing/Work in Process

Operating System: CTS-300

Keywords: • Accounting • Inventory • Production control
• Project management

Sifting through the maze of records pertaining to an active job is simplified by this module, which uses submodules and programs that place the important details at your disposal on a regular basis. Five submodules — labor ticket processing, parts, list of materials, operation sheets, and parts inventory — offer the following features:

- A work-in-process (WIP) record is created for each open order. The entry that creates that record references the list of materials (LOM) for the ordered item to build a record composed of labor, operations, and parts. Previous part costs and labor costs, based on standard operation times, are used to establish job cost estimates. An LOM, operations listing, and purchasing LOM (which combines like items) are printed. This program allows a list of materials with up to five levels of indention.
- The file is then sorted, and the WIP file is updated with new information.
- Input to the work in process is provided through the labor ticket, accounts payable, and inventory transactions. Updates occur after a transaction register is printed.
- Reports include WIP, job status, and exceptions (where actual exceeds estimate).
- Changes are permitted to individual work-in-process records.
- Also available are programs to calculate WIP month-end costing for both complete and partial shipments, with posting to the WIP header.
- A CRT display shows the status of any shop order.
- A labor efficiency report highlights the performance of employees against job standards.
- If job requirements change, the job can be updated through an "explosion" process that retains current cost data while allowing new or changed entry items to be added.

A version of this product is available for the VAX computer.

Price: \$2500 — \$7000

Contact: Zane R. Oaks, Marketing Manager
(513) 890-1800

PROJECTS UNLIMITED, INC.

P.O. Box 14538

Dayton, OH 45414

WWRAP (Wire Wrapping for Semiautomatic Machines)

Operating System: CTS-300, IAS, RSTS, RSX, RT-11

Keywords: • CAD/CAM • Electrical

This interactive general-purpose program produces control media for semiautomatic wire wrapping machines. Output for other wiring applications, such as Stitch-wire, Quick Connect, and Multiwire, can also be produced.

Data may be entered directly through the keyboard of the VDU when in the interactive mode; or, the program can be interfaced to access data from a CAD-produced file. The program is menu driven, so an individual needs no prior knowledge of computers or programming to achieve successful results. Powerful editing facilities are available.

The package also comprises a master file in which the geometric definitions of sockets and complete boards in constant use can be stored. The storing of standard board geometry in the master file and the format of data entry are compatible with the program AWRAP for Gardner-Denver 14FV and 14FS automatic wire wrapping machines.

Program features include level assign; point-to-point, right-angle, or routed wiring; area routing using NOGO areas, channels, and routing points; IC pin/board location cross-reference; master file for storing standard boards and ICs; plot of board geometry and IC placement; choice of wiring machine control media; wrap count and wire length summary; string list or from-to input; single and twisted-pair wiring; wire grouping and choice of wiring order; and inch/metric input and output.

A version of this product is available for the VAX computer.

Price: £12,500

Contact: K. E. Cole

(0905) 53335

STAVELEY COMPUTING

Blackpole Road

Worcester WR3 8TH

England

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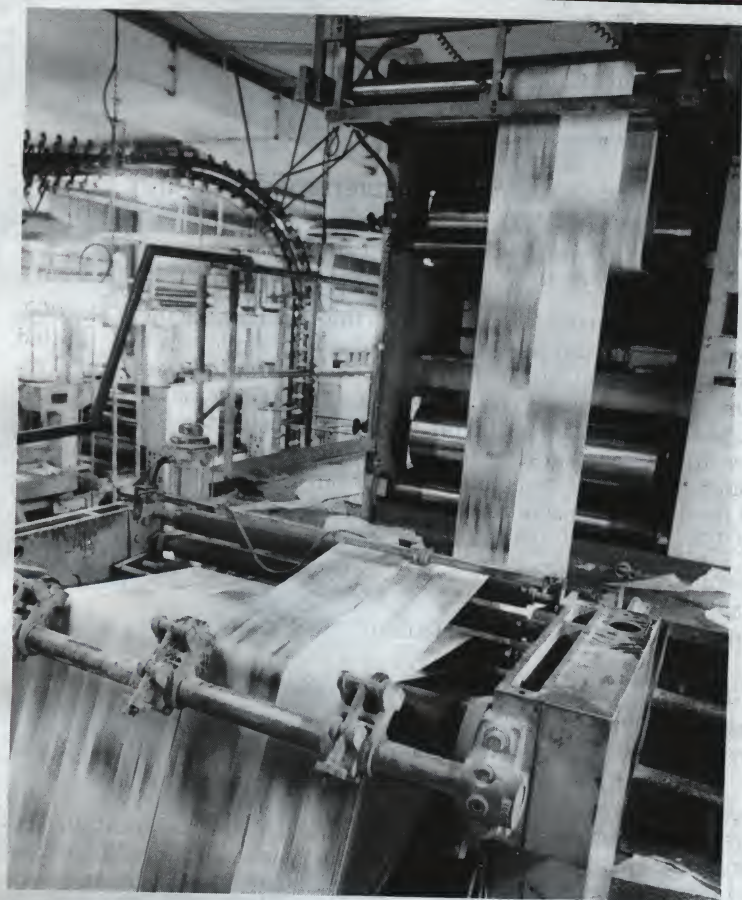
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Media



Canerque

Barter

Operating System: RT-11

Keywords: • Accounting • Broadcasting • Report writer
• Sales and marketing

Barter is an accounting system that keeps track of trade advertising for radio and TV stations. Contracts for advertising, compensating services, and products provided by the advertiser are entered into the system. Barter generates reports by advertiser, by the amount of advertising provided, by the amount of goods or services used, and by the remaining balance due the station or the advertiser.

Price: \$2000

Contact: Lee Facto

(201) 567-3263

RADIO COMPUTING SERVICES

177 N. Dean Street

Englewood, NJ 07631

BRLLP (Print-Out Braille Conversion Program)

Operating System: RSX

Keywords: • Presentation aids • Printing

Memory required: 14KW.

The cost of commercial Braille line printers can range up to \$20,000. Therefore, potential users who are blind or employers of the blind may be interested in the short FORTRAN Braille-Generating Program. Three-ply paper can be used on a DECwriter, or two-ply paper can be used on an impact drum printer to receive the Braille output when the period character is embossed. The multiply paper provides enough cushioning to produce a light but readable Braille, without the need for expensive modifications to existing output equipment. DECUS number 11-509.

A version of this product is available for the VAX computer.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Broadcast Management

Operating System: RSTS, RSX

Keywords: • Accounts receivable • Billing • Broadcasting
• Sales and marketing

Broadcast Management, a powerful yet flexible traffic system with versions for both radio and TV, is capable of running multiple stations on one computer. A 20-week inventory is maintained. Schedules and logs are reconciled daily. Flexible commercial order instructions allow salespeople a wide range of sales options, including vertical and/or horizontal rotations. Copy rotation is automatic. PSAs and

promos are easily scheduled, as are orders from national reps. Invoices and accounts receivable are generated automatically. The system is fully integrated with CMC's standard accounting packages or is adaptable to other systems. Full management reports follow every phase of the system.

Newsroom word processing is also available and includes teleprompting for TV and a radio control-room terminal for instant news access.

Price: \$2500

Contact: John Griffith
(208) 524-2622

COMPUTER MANAGEMENT CENTER, INC.
P.O. Box 2103
Idaho Falls, ID 83401

Circulation Management

Operating System: RSTS, XENIX

Keywords: • Billing • Mailing lists

Distribution medium: 5¼" diskette.

This package for publishers of serial publications is driven by user-defined system tables. Once tables are established, data entry provides a large file of new subscribers, which is merged into an existing subscriber file in batches. Billings, renewal notices, gift letters, and mailing labels may be designed and produced by the system. Other features of the system include credit card capabilities, foreign subscriptions, multiple publication data entry, and a built-in interface with the NMI Complete Accounting Package.

Price: \$1495

Contact: Terri Akers
(215) 822-2407

NORTON-MURPHY INTERNATIONAL, INC.
176 Chalfont Road
Chalfont, PA 18914

CMS-11 (Circulation Management System)

Operating System: RSTS

Keywords: • Mailing lists

This complete subscription fulfillment software includes ABC/BPA reporting, financial reports, and promotion analysis.

A version of this product is available for the VAX computer.

Price: \$10,000 - \$30,000

Contact: Paul B. Webster, President
(213) 577-7433

ALCOR FINANCIAL SERVICES, INC.
1981 E. Locust Street
Pasadena, CA 91107

CMS (Cable Television Management System)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Billing • Broadcasting • Data base management
• Telecommunications

This interactive on-line system for cable television system operators is built around a Subscriber Master File for adding, changing, deleting, or listing subscribers. A Subscriber List may be obtained in total or on a selected basis — type of service, installation date, paid-through date, method of payment, and geographic location.

The system capabilities include an alphabetical listing of subscribers, automatic assessment of monthly and yearly charges for any number of basic or pay TV services, bank draft preparation for each bank for bank draft subscribers, interactive entry and editing of new charges and payments, printing of past-due notices for delinquent subscribers, generation of statements for selected subscribers, account status on video terminal and obtaining a printed copy on request, printing of welcome letters and subscriber account cards on request, and tracking converter serial numbers by subscriber.

The system generates reports and a charge/payment register by late charges, disconnect, street, daily cash receipts, weekly, and installer's productivity. The system also interfaces with addressable converters and taps manufactured by a number of major suppliers to the cable television industry, including Jerrold, Scientific-Atlanta, Pioneer, and Magnavox.

A version of this product is available for the VAX computer.

Price: \$15,000 +

Contact: Larry Edwards, President
(803) 297-9290

BUSINESS SYSTEMS, INC.
One Marcus Drive
Greenville, SC 29615

Duxbury Braille Translator

Operating System: RSTS, RSX, RT-11

Keywords: • Data conversion • Education • Printing
• Translators

Memory required: 56K.

This system automatically produces braille from print and print from braille. The translator enables blind students and professionals to prepare and access material on the same basis as their sighted colleagues.

The operation of a braille translation system consists of three steps. The first, entering braille or print material, is accomplished by the operator typing on a standard print, voice, or braille-oriented terminal. It is also possible to read print automatically through an optical character reader and to access material already available from other computer sources. The second step, the translation, is usually fully automatic. The final step is to send output automatically to one or more suitable devices, such as video displays, printers, embossers for zinc plates, direct paper embossers, or portable braille display machines.

The computer hardware required can range from mainframes or minicomputers to portable microcomputers. Other computer applications can run on the same equipment in all cases. Duxbury Systems has installations worldwide, producing grade 2 braille in English, with variations for American, British and Halifax mathematics usage, Spanish, Afrikaans, and Arabic, as well as grade 1 braille in those and several other languages.

Price: \$9900

Contact: Joseph Sullivan

(617) 263-7761

DUXBURY SYSTEMS, INC.

77 Great Road

Acton, MA 01720

FACS — Newspaper Circulation and Accounts Receivable

Operating System: RSTS

Keywords: • Accounts receivable • Billing • Printing

This comprehensive newspaper distribution system centers on the Total Market Coverage (TMC) concept. The software combined with the FACS Newspaper Accounts Receivable system and the rest of the FACS general accounting packages will give any small to medium-size newspaper a complete financial management system. The system features interactive components that include subscriber, carrier, and district manager name and address files, full production reporting, draw calculation, carrier billing, and carrier promotions; conformation to Audit Bureau of Circulation (ABC) standards; ten demographic codes in the subscriber master file; automatic restarts for subscriber interrupts and automatic stops on expiration date; a mail subscriber capability and user-defined reporting capabilities with selectivity; and carrier A/R handling.

The FACS Newspaper Accounts Receivable package features generation and proofs for invoices, cash receipts, adjustments, month-end customer statements, and aged trial balance in addition to multiple sales analysis reports; multiple publication reporting (for example, daily, Sunday only, and weekly); multiple ad types (display, classified, national, and so on); individual customer contract maintenance; customer earned rate computation and customer activity inquiry; and credit reporting and customer late notices. All reports can be printed to the screen or to a hard-copy device.

A version of this product is available for the VAX computer.

Price: \$7500

Contact: Steven L. Buth
(509) 624-4248

SPOKANE COMPUTER SERVICES, INC.

West 915 Second Avenue
Spokane, WA 99204

KEREN

Operating System: RSTS, RT-11

Keywords: • Accounting • Data collection • Inventory
• Printing

This third-generation printing management system is designed for the small, medium, or large-size printing or graphic arts-related industry. Applications include estimating/quotation, order entry, loading/scheduling, automatic data collection, work-in-process analysis, costing, productivity and profitability analysis, inventory, invoicing, accounting, sales analysis, and custom report generation. These applications are fully integrated and enable the user to customize the system.

KEREN features data base structured design, friendliness, ease of use, customization capabilities, integration, computer-generated intelligence, speed, custom-report generation, and touch-screen technology. Telephone hot-line, modem, and on-site support are provided, as well as ongoing classroom training and user groups.

A version of this product is available for the VAX computer.

Price: \$10,000 - \$50,000

Contact: Mike Mellusi
(201) 574-0400

POLYCHROME CORP., SYSTEMS DIVISION

160 Terminal Avenue
Clark, NJ 07066

Logbook Program for Radio Amateurs

Operating System: RT-11

Keywords: • Broadcasting • File transfer

Memory required: 48KB.

This interactive program administrates a logbook for a radio amateur. Included is a HELP command to show the list of commands and what those commands mean. The data is written on two files: BOOK.LOG, on the system diskette, and BOOK.LOG, on the working diskette. When the program is started, data is copied from the system diskette to the working diskette. DECUS number 11-630.

Note: This program was developed using a Heathkit H-11 computer and should run on any PDP-11/03 computer without modifications and on any other computer with only a few changes.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

MACROCAT

Operating System: RSX

Keywords: • Documentation • Presentation aids
• Word processing

WCC MACROCAT software is designed for use in translating foreign-language documents. This product, developed for CAT (computer-aided translation), is a tool to be used by human translators to increase productivity during the translation process. Software is available to translate English to Spanish, German, French, Portuguese, and Arabic. Software is also available in the following language directions: Spanish to English, German to English, and French to English. Software to accommodate Italian and Japanese will be available soon.

The software produces printed output in draft or high-quality print form. As a turnkey system configuration, the system can accept manually keyboarded text, computer input, or OCR input. Final, edited output may be printed, stored on disk or tape, or routed to other computer processing systems. Translation output has been tested at over five times the rate of manual methods. Software is also available unbundled.

Key features are dictionary maintenance capabilities, unattended translation process, batch processing, and multilingual word processing (used for final text editing). The software is especially valuable for translating technical documents, product manuals, publications, product user documentation, and so forth.

A version of this product is available for the VAX computer.

Price: \$16,000 - \$150,000

Contact: Chris Ferro

(312) 564-8122

WEIDNER COMMUNICATIONS CORP.

500 Skokie Boulevard

Northbrook, IL 60062

MP System

Operating System: CTS-300, RSTS, RT-11

Keywords: • Data base management • Mailing lists

Memory required: 64KB.

This series of menu-driven computer programs, written in DIBOL, can easily be customized to meet the mailing, membership, and management needs of publishers, associations, or organizations. Flexibility begins with a choice of data processing methods: batch mode, on-line interactive processing, or turnkey system. A well-designed master file provides access to all the services offered and acts much like a data base, giving the user flexible coding fields plus event files to permit maintenance of extensive information in each record, which is available to all programs in the system.

Data processing needs of trade, professional, religious groups, associations, and organizations are fulfilled by the MP System. Important areas covered include membership record maintenance, renewal notices and billing, listings and labels, statistical reports, publication mailing lists, and personalized letters. Convention and seminar services of the MP System can handle registration details and produce name tags. Financial applications are also available.

The MP System is modular; the user pays only for services used. The fields can be interfaced to word processing applications and integrated with outside systems as required. No matter what service or equipment is used, Hartley Data is committed to a level of support and guidance that ensures a smooth operation.

Price: Available upon request

Contact: Ruth K. Koolish

(312) 724-9280

HARTLEY DATA SYSTEMS, LTD.

1807 Glenview Road

Glenview, IL 60025

Person System

Operating System: RT-11

Keywords: • Broadcasting • Data base management

Faced with the problem of keeping accurate records of the frequency of music-survey participation, RCS designed the Person System as an aid to the radio station department head responsible for ongoing music research. This survey-respondent data base management system sorts by name, address, zip code, and phone exchange and keeps accurate records of last and next contact. The system also prints mailing labels and a number of indispensable reports. The system may be run with RCS's Sampler, the call-out survey analysis system.

Price: \$1000

Contact: Lee Facto

(201) 567-3263

RADIO COMPUTING SERVICES

177 North Dean Street

Englewood, NJ 07631

PUBCOM

Operating System: RSX

Keywords: • Data base management • Data entry • Inventory
• Warehousing

PUBCOM provides one data base for products (books, periodicals, and other media) and addresses (customers, salespersons, vendors, and employees). Users may select modules to perform order entry, invoicing, inventory control, warehouse control, payroll, cost accounting, catalog preparation, standing-order and subscription processing, mail lists, accounts receivable, accounts payable, general ledger, royalty accounting, and customer service.

Access to the system is through cathode ray tube (CRT) or hard-copy printer terminals. Output from the system includes CRT, hard copy, or magnetic tape. All devices may be in-house and/or remote from the central computer facility. In addition, the warehouse module uses on-line weigh scales to receive and identify products and to validate outgoing shipments.

Two years of transaction history are on line to answer customer service questions and to allow management analysis and reporting. Access to any transaction is nearly instantaneous.

Mnemonic abbreviations are used instead of traditional computer coding to represent products, names and addresses, and specifications, such as shipping methods and customer classifications. The result is extremely brief, fast, and accurate order input. In addition, requests for information by the terminal are backed up by two levels of explanation that can be summoned by typing ? or ???. Training is therefore easy and self-paced. Documentation is kept current.

A version of this product is available for the VAX computer.

Price: \$10,000 - \$100,000

Contact: Howard Charles
(617) 685-3306

DEVICE DEVELOPMENT CORP.

5 S. Union Street
Lawrence, MA 01843

Sampler

Operating System: RSX, RT-11

Keywords: • Broadcasting • Statistics

The RCS Sampler call-out survey system provides a reliable way of tracking your audience's views, preferences, and tastes in artists, cuts, and types of music. Sampler, designed for radio stations, improves survey productivity by keeping accurate datable records, by watching sampling error, and by organizing the data-gathering and analyzing effort. Sampler generates random telephone numbers of legitimate form in a given area code and set of prefixes. Sampler keeps complete, tidy, timely records of your survey work and plans. Sampler may be run with the RCS Selector system.

Price: \$3000

Contact: Lee Facto

(201) 567-3263

RADIO COMPUTING SERVICES

177 North Dean Street
Englewood, NJ 07631

Scribe Subscription and Merchandise Fulfillment System

Operating System: RSX

Keywords: • Data base management • Information management
• Inventory • Report writer

Scribe supplies software as part of a turnkey hardware/software package to perform in-house on-line subscription and merchandise fulfillment for periodical publishers. Scribe covers the entire spectrum of circulation management tasks: order entry, invoices and renewal notices, accounting and marketing analyses, ABC and BPA audit statements, label sorting and printing, customer correspondence, back issues and article reprints, second-class postal reports, and more.

The system has been in use since 1977 by publishers of magazines, journals, newsletters, reference series, and some newspapers. More than 30 publishers with more than 500 publications now use Scribe systems. File size typically ranges from 5000 to 750,000 in an unlimited number of titles. The system is comprehensive, well supported, proven in the field, and easy to use.

A version of this product is available for the VAX computer.

Price: \$80,000 +

Contact: Thorn Mead

(617) 491-5553

SCRIBE DATA SYSTEMS (A FAXON CO.)

222 Third Street

Cambridge, MA 02142

Selector

Operating System: RSX, RT-11

Keywords: • Broadcasting • Scheduling

Selector applies your radio station's music policy to provide controlled variety, balance, and consistency. This music-selection system offers double artist and title time protection, sound code time protection, and cart time protection. Scheduling is done by oldest last-play date within a category. Selector provides directories by artist, title, category, or cut/album in addition to cross-tabulations and histograms of artists, titles, and cuts. Music can be scheduled for two stations with different play lists and formats, using a single machine.

Price: \$7000

Contact: Lee Facto

(201) 567-3263

RADIO COMPUTING SERVICES

177 North Dean Street

Englewood, NJ 07631

SMART Translator — English-Deutsch (German)

Operating System: ULTRIX-11, UNIX* (Version 7)

Keywords: • Documentation • Translators

This program helps technical translators to translate English technical instructions into German. The program understands how to translate compound nouns for CAD/CAM, robotics, and engineering terminology.

Written in C, the program reads a UNIX* or word processor file and automatically translates the contents into German, sentence by sentence. Some postediting (10%) is necessary to add Germanic style.

The program can handle simple and complex sentences; German verb conjugation, including gerunds and negation; and proper nouns, adjectives, pronouns, German capitalization, phrasal verbs, and prepositions. The program provides automatic agreement of nouns, verbs, and adjectives by case, number, and gender; complete word reordering based on German syntax and grammar; placement of German prepositions; compounding of complex German nomenclature;

and metric calculation. The program also resolves homonyms, synonyms, and engineering terminology. An optional module for metric conversion is available.

The 1-pass Smart Translator system permits multiuser access and can run in the background (batch), producing fast, accurate, consistent translation of highly complex material. The program can produce 100 pages a day, versus 3 pages by hand. Thus, human translator productivity is improved dramatically. The program produces automatic output with umlauts and driver codes for laser printers and phototypesetters.

This translator program is also available for \$2500 a month, including maintenance.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$85,000

Contact: J. Smart

(212) 486-1894

SMART COMMUNICATIONS, INC.

655 Third Avenue, P.O. Box 963, FDR Station
New York, NY 10150

SMART Translator — English-Español (Spanish)

Operating System: ULTRIX-11, UNIX* (Version 7)

Keywords: • Documentation • Translators

This program helps technical translators to translate English technical instructions into Spanish for Spain and Latin America. Separate data bases are available for each Latin American country and standard Castillian. The program is used for translation of technical documentation and understands complex technical jargon for CAD/CAM, robotics, and engineering.

Written in C, the program reads a UNIX* or word processor file and automatically translates the contents into Spanish, sentence by sentence. Some postediting (5%) is necessary to add Spanish elegance and flair.

The program can handle simple and complex sentences; Spanish verb conjugation, including the verb "to be" and verb negation; and nouns, phrasal verbs, and sentence fragments. The program provides automatic agreement in number and gender for adjectives and past and present participles; automatic word reordering based on Spanish syntax and grammar; some styling; and vowel editing. The program also resolves homonyms and synonyms. An optional module for metric conversions is available.

The 1-pass Smart Translator can run in the background (batch), producing fast, accurate, consistent translations of highly complex material. The program can produce 100 pages a day, versus 3 pages by hand. The program produces output with accents and driver codes for laser printers and phototypesetters.

This translator program is also available for \$2500 a month, including maintenance.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$85,000

Contact: J. Smart

(212) 486-1894

SMART COMMUNICATIONS, INC.

655 Third Avenue, P.O. Box 963, FDR Station
New York, NY 10150

SMART Translator — English-français (French)

Operating System: ULTRIX-11, UNIX* (Version 7)

Keywords: • Documentation • Translators

This program helps technical translators to translate English technical instructions and messages into technical French for Canada and France. The program understands complex technical jargon for CAD/CAM, robotics, and engineering.

Written in C, the program reads a UNIX* or word processor file and automatically translates the contents into French, sentence by sentence. Some postediting (5% average) is necessary to add French elegance and flair.

The program can handle simple and complex sentences; French verb conjugation, including the subjunctive, gerund, and negation; nouns; and phrasal and auxiliary verbs. The program provides adjective agreement in number and gender; past and present participles; automatic word reordering based on French syntax and grammar; and French styling and vowel editing. The program also resolves homonyms and synonyms. An optional module for metric conversions is available.

The 1-pass Smart Translator system permits multiuser access and can be run in the background (batch), producing fast, accurate, concise translations of technical material. The customized data base permits accurate, consistent translations of special terminology.

The program can produce 100 pages a day, versus 3 pages by hand. The program produces output with accents and driver codes for laser printers and phototypesetters.

752 Media

This translator program is also available for \$2500 a month, including maintenance.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$85,000

Contact: J. Smart

(212) 486-1894

SMART COMMUNICATIONS, INC.

655 Third Avenue, P.O. Box 963, FDR Station

New York, NY 10150

Storm Center

Operating System: RT-11

Keywords: • Broadcasting

The RCS Storm Center system organizes severe-weather announcements for school and business closings and can handle 4000 organizations. Storm Center prints reports by geographical area, opening time, and type of school or business. Storm Center remembers the "kill time" of each entry and ensures security by individual passwords. Storm Center prints mailing labels for use in contacting the businesses and schools in your area.

Whatever the cause — earthquake, flood, heatwave, or winter storm — Storm Center enables you to keep track of quick-breaking closing or late-opening announcements for schools, businesses, and public or private transportation services.

Price: \$2000

Contact: Lee Facto

(201) 567-3263

RADIO COMPUTING SERVICES

177 North Dean Street

Englewood, NJ 07631

Television Operations Systems

Operating System: DSM

Keywords: • Accounting • Broadcasting • Order entry
• Payroll

This system provides complete television business operations on one CPU and includes order entry and inventory control (such as sales, traffic, and copy/continuity), log production, billing, accounts receivable, and collection management. Accounts payable, general ledger, and payroll, all integrated and with EFT capability, are also offered. A separate module is included for connection to Western Union's EASYLINK system, which replaces a TWX machine. A tie-in to the

Chryon VP-1 character generator, which creates broadcast-quality graphics and characters at one quarter the cost of stand-alone systems, can be provided.

The system has on-site password and security control. All modules are independent, menu driven, and easy to learn.

A version of this product is available for the VAX computer.

Price: \$1000/mo - \$2000/mo

Contact: W. Lowell Putnam
(413) 786-2200

VIDEO COMMUNICATIONS, INC.
96 Industry Avenue
Springfield, MA 01104

TPINS (Times Publishing Interactive Newsprint Inventory System)

Operating System: RSTS

Keywords: • Accounting • Inventory • Printing
• Text management

Memory required: 28K.

This complete DIBOL/DECFORM system for newsprint inventory accounting processes ranging from freight car manifests to the month-end inventory report. The program was written for, but is not restricted to, a medium-size newspaper publishing company and is easily tailored. DECUS number 11-486.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

WCC CAT (Computer-Assisted Translation and Multilanguage WP System)

Operating System: RSX

Keywords: • Documentation • Presentation aids
• Word processing

This system is designed for the foreign language translation of documents. Software is available to translate English to Spanish, German, French, Portuguese, and Arabic. Software is also obtainable in the following language directions: Spanish to English, German to English, and French to English. Available soon will be software accommodating both directions of Japanese, English, and Italian. Printed output is in draft or high-quality print form. The system can accept manually keyboarded text, computer input, or OCR input. Final, edited output may be printed, stored on disk or tape, or routed to other computer processing systems. Translation output has been tested at more than five times the rate of manual methods.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Robert Adams

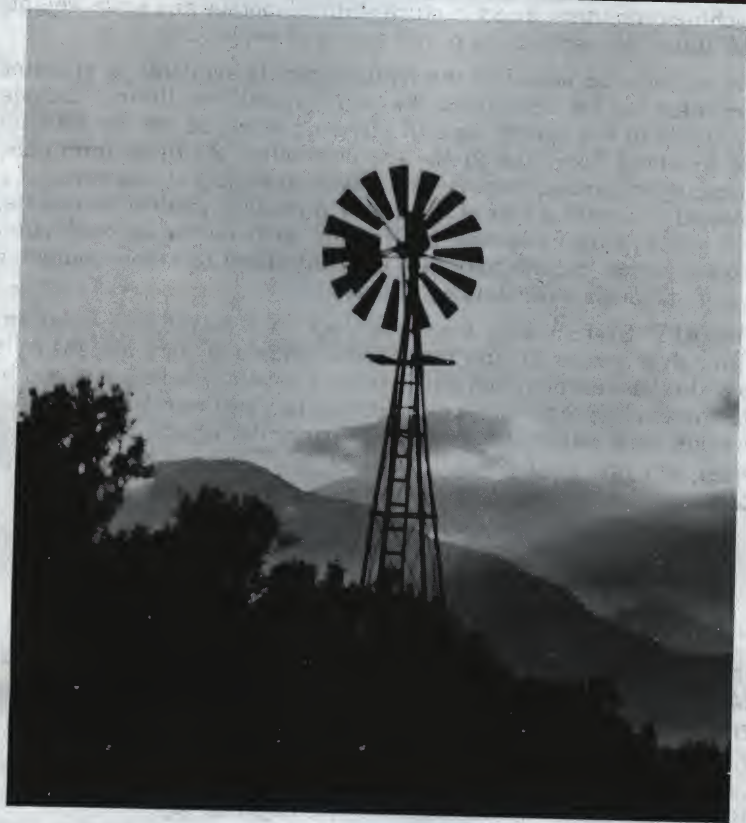
(312) 564-8122

WEIDNER COMMUNICATIONS CORP.

500 Skokie Boulevard, Suite 270

Northbrook, IL 60062

Natural Resources



POSITIVE IMAGES/Jerry Howard

APR (Automated Production Reporting) System

Operating System: RSX

Keywords: • Inventory • Production control • Scheduling
• Warehousing

This system is designed to meet the finishing and shipping needs of the modern paper mill. This flexible system is tailored to meet the particular scheduling and roll-handling procedures of each mill. Wherever mill operation allows, the APR System gathers information from data sources directly, bypassing operator entry to minimize costly data transcription errors. Features of the system allow direct data communication with mill business computers and paper machine computers, direct capture of lineal footage and scale weight, and automatic verification of roll conveyor sequencing.

The information stored in the APR System is available at operator terminals located throughout the mill. Typical installations include terminals in the operations and planning office, at the winders, on the finishing floor, and in the shipping office. At those terminals, simple operator entries cause the system to display the contents of a selected file, print a copy of the file, or print shift production reports, mill order copies, shipping tallies, and customer order production records. Those reports may also be transmitted to a host computer system through direct link or diskette.

The APR System also manages dock and warehouse location. Through a few easy-to-use commands, a shipping clerk assigns rolls to and retrieves rolls from any inventory location. Rolls are stored in the system by grade, size, customer number, and warehouse location to allow easy retrieval to complete a particular order.

Price: \$20,000 – \$50,000

Contact: Robert C. McGill
(713) 869-9371

HOUSTON ENGINEERING RESEARCH CORP.
7250 Wynnwood, Houston, TX 77008
P.O. Box 3246, Houston, TX 77253-3246

IPAS/100 (Integrated Petroleum Accounting and Land Management System)

Operating System: CTS-300, RT-11

Keywords: • Accounting • Energy • General ledger
• Petroleum

Distribution medium: 9-track 1600 bpi magnetic tape.

This thorough yet easy-to-use set of computerized accounting tools, written in COBOL, is designed for the growing single or multicompany oil producer. The system operates in batch and/or on-line mode and features journal entry, general ledger, budgeting, joint interest billing, vendor payables, purchaser input, revenue distribution,

windfall profit tax, land management, asset reporting, and general-purpose partnership accounting and investor communications subsystems.

The integration of the IPAS/100 allows data input only once to be accessed throughout the system, providing information required for effective processing and reporting to each subsystem.

A version of this product is available for the VAX computer.

Price: \$100,000 - \$250,000

Contact: Robert H. Black
(405) 636-1587

PETROLEUM SOFTWARE SYSTEMS, INC.
8265 S. Walker
Oklahoma City, OK 73139

Log and Lumber Inventory Systems

Operating System: RT-11, TSX-PLUS

Keywords: • Information management • Inventory

This system keeps track of multiple yards, bundles, rafts or docks, and ships of logs by individual bar-code or non-bar-code log tags. The system has all information about logs stored by tag number. Information includes species grade, measurements, total footage (gross and net, automatically calculated), split-log information, bureau certificate number, and many other fields. Outputs are available with sub-totals by species, grade, bundle, and/or dock/raft. Lumber Systems keeps track of inventory and allows the user to make up orders from open stock or from ticketed stacks. Restacking is allowed and done automatically. The system can be easily bar coded, allowing quick and easy physical inventory to be taken and a variance report received from the system. The system was designed under stringent Northwest requirements and conditions.

Price: Available upon request

Contact: John Logan
(503) 297-1627

DENNISON EASTMAN CORP.
6400 S.W. Canyon Court
Portland, OR 97221

Mastercontrol

Operating System: RSX

Keywords: • Data collection • Flow analysis • Process control
• Production control

Mastercontrol provides data acquisition, monitoring, and control facilities for industrial processes. Functions include display and logging of status, event messages, display of mimic diagrams, histograms and trends, alarm annunciation and acknowledgment, control

initiation, diagnostics, and maintenance aids. Mastercontrol is suitable for flow-control applications, such as water distribution and gas and oil pipeline controls.

A version of this product is available for the VAX computer.

Price: \$40,000 - \$80,000

Contact: Bob Wisniewski, Manager, Advanced Systems
(212) 599-0828

LOGICA INC.

666 Third Avenue

New York, NY 10017

OGAS (Oil and Gas Accounting System)

Operating System: RSTS

Keywords: • Accounting • Financial management
• Petroleum • Report writer

Distribution media: magnetic tape, RL02.

This computer-based interactive, integrated accounting and financial system is tailored to the special information needs of the small to medium-size oil and gas company. The system handles multicompany operations with automatic intercompany transactions; provides instant access to data files; features interactive data entry and editing; and integrates the accounts payable, payroll, AFE, joint interest billing, and revenue distribution systems with the general ledger, with transactions between those systems made automatically.

OGAS provides these applications:

- **Accounts payable:** Complete processing of invoices with general ledger distributions, aging of payables, cash requirements forecasting, and printing of voucher checks
- **General ledger/financial statements:** Profit and loss statement, balance sheet, budgetary and comparative financials, audit trails, AFE reporting, and transaction reporting by lease
- **Joint interest billing:** Preparation of investor invoices and statements, accounts for prepayments by owner by lease, and recording of operator's share in general ledger
- **Revenue distribution:** Maintenance of revenue suspense and wind-fall-profits excise-tax data, preparation of revenue distribution checks, and purchaser-oriented entry of revenue items
- **Management reporting:** Lease well-history reporting for property management and for payout status, lease cash-flow reports for tax reporting, and lease economic analysis
- **Lease records:** Complete tracking of lease inventories, rental forecasts, critical-date monitoring, preparation of partner billings, and rental checks

- Payroll features: Preparation of payroll checks, maintenance of payroll history, handling of rig payrolls by rig/job, and preparation of W-2 reports

A version of this product is available for the VAX computer.

Price: \$30,000 – \$75,000

Contact: Larry D. Gatlin
(915) 687-2226

TECHTRONIC DATA SYSTEMS, INC.
407 N. Big Spring
Midland, TX 79701

Oil and Gas Accounting System

Operating System: CTS-300, RSTS, RT-11, TSX-PLUS

Keywords: • Accounting • Information management
• Petroleum

This library of programs for oil and gas producers provides clear, concise, and accurate information for accounts and activities of the various operating companies and/or drilling programs. The oil and gas disbursement system is used for process production and expense date, producing disbursement checks and management reports. The system handles lease acreage accounting and delay rental payments, along with lease management reports.

Those and the other systems available are running in 35 installations. No special personnel skills are required. Data preparation and entry are extremely easy, and all systems are interactive.

Price: \$1000 – \$20,000

Contact: Greg Wingate
(813) 933-9102

WINGATE & ASSOCIATES
4520 W. Kennedy Boulevard
Tampa, FL 33609

OMS (Oil Movement System)

Operating System: RSX

Keywords: • Data collection • Inventory • Petroleum
• Process control

This system represents an automated approach to "normal" supervisory data acquisition and control functions used in the monitoring and control of product movements in tank farms, refineries, and petrochemical plants. The basic philosophy is to acquire information concerning the various elements of an oil movement facility on a periodic high-speed basis, process (verify and limit check) the data, and present it to an operator, on demand, through an interactive CRT console.

Through the CRT, the system inputs data and control commands from the operator, performing the desired functions. Information flow is coordinated by a central processor capable of communicating with various types of peripherals, remote stations, and other computers. In addition to the data acquisition and open loop control processes, the OMS performs extensive data logging, calculates and maintains inventory information, performs and monitors product transfers, analyzes all new data for alarm conditions, and periodically executes diagnostics to ensure the integrity of the system, the validity of the data, and sources of data errors.

Price: \$20,000 - \$50,000

Contact: Eugene E. Chovanec
(713) 869-9371

HOUSTON ENGINEERING RESEARCH CORP.

7250 Wynnwood, Houston, TX 77008

P.O. Box 3246, Houston, TX 77253-3246

Process Supervisory Control

Operating System: RSX

Keywords: • Chemical • Manufacturing • Process control
• Report writer

This package offers supervisory control and report generation. The package is applicable to most process control applications, with special emphasis on water and waste water treatment.

Price: \$25,000 - \$100,000

Contact: James Morgan
(605) 692-6145

DAKTRONICS, INC.

P.O. Box 128

Brookings, SD 57006

TMS-4 (TANO Macro System, Version 4)

Operating System: RSX

Keywords: • Energy • Petroleum • Process control
• Utilities

TMS-4, designed for supervisory control and data acquisition in the oil and gas industry, runs on a PDP-11/44 under RSX-11M Version 4. TMS-4 is an integrated system that provides monitoring and control of pipeline networks that transport liquid or gas product. TMS-4 can accommodate up to 4000 monitoring and control points and has been installed for oil and gas pipeline systems, oil and gas production facilities, tank farm facilities, geothermal well sites, and gas dispatch centers.

TMS-4 includes data acquisition and processing tasks, color graphics CRT displays with keyboards, alarm/event logging, automatic failover to the back-up CPU, interactive CRT page creator, and data base on-line editing and management. Also available are special applications such as batch tracking, leak detection, product accountability, and AGA-3 calculations.

Price: \$500,000

Contact: Ron Gumina

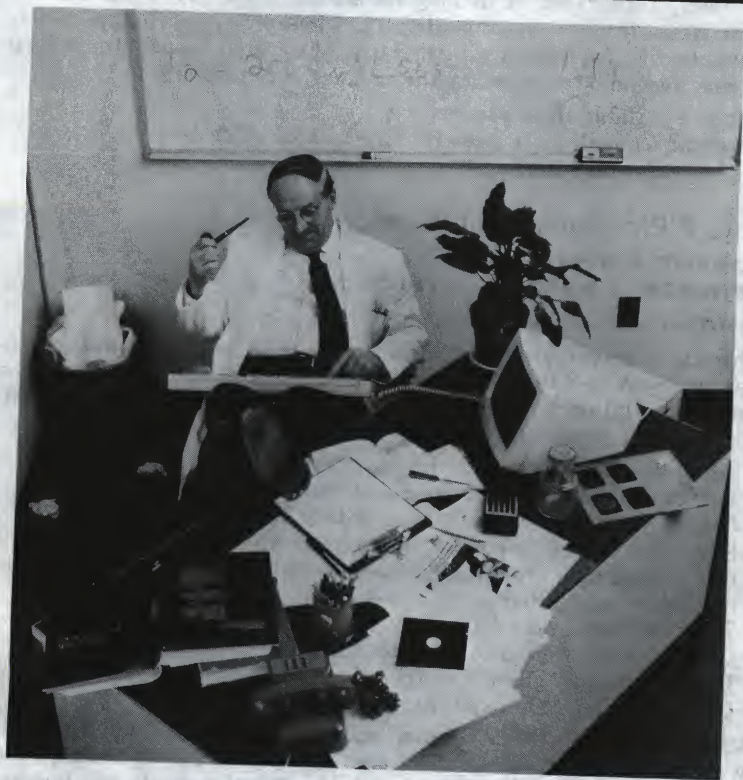
(504) 254-3500

TANO CORP.

4301 Poche Court West

New Orleans, LA 70129

Office Systems



A-to-Z

Operating System: Micro/RSX

Keywords: • A-to-Z

Memory required: 512K bytes.

This integrated, expandable, multiuser system serves the small business computer market. A-to-Z provides word processing, electronic mail, graphics, spreadsheets, data management, and query and report-writing abilities. A-to-Z also integrates with other DIGITAL software, thus allowing the system to grow with small businesses.

A-to-Z is a single-source system, which means that applications may be easily integrated, data may be shared across applications, and keyboard conventions and facilities are the same in each application. Those features speed learning and use. The system also features clear menus and help facilities for the inexperienced user.

Price: Available upon request

Contact: Consult your local DIGITAL sales office (see Introduction).

A-to-Z Electronic Mail, Version 1.0

Operating System: Micro/RSX

Keywords: • A-to-Z • Electronic mail

Distribution medium: RX50.

This menu-driven electronic mail system runs as an optional component of the A-to-Z Integrated System. A-to-Z Electronic Mail uses the same installation process as the other A-to-Z Integrated System components and allows the user to:

- Send, answer, forward, and delete messages
- Use electronic mail from A-to-Z menus
- Create and edit messages using A-to-Z Word Processing
- Store and list messages in folders, retrieve messages from folders, collect messages from folders by subject, and move messages from one folder to another
- Print messages on a hard-copy printer
- Convert a message into an A-to-Z Report
- Define, use, and change distribution lists
- Obtain on-line help explaining A-to-Z Electronic Mail functions

A-to-Z Electronic Mail menus and prompts have been carefully designed to help the beginning user easily select desired functions. Additional aid can be obtained with the use of a single key marked "HELP." This on-line help facility provides information about the function that the user is accessing. The user documentation provides further information in tutorial format.

Prerequisites for this product are A-to-Z Integrated System, Version 1.5, and A-to-Z Word Processing.

Refer to SPD #18.26.00 when requesting further information on this product from your local DIGITAL sales office.

Price: \$400

Contact: Contact your local DIGITAL sales office (see Introduction).

Abax Mailing Label System

Operating System: CTS-300, RSTS, RT-11, TSX-PLUS

Keywords: • Information management • Mailing lists
• Printing

This system prints pressure-sensitive labels for mass mailing and internal controls and supports an unlimited number of lists. The labels are printed in accordance with postal standards and are presorted for the best postal rates. The printed labels can be selected by number, name, street name, zip code, precinct number, or by a user-defined code.

A version of this product is available for the VAX computer.

Price: \$400 - \$600

Contact: Charles R. McKown, President
(316) 663-5041

ABAX COMPUTER SYSTEMS

P.O. Box 1097

Hutchinson, KS 67504

ALP (Address List Processor)

Operating System: RSTS, RSX

Keywords: • Data collection • Forms management
• Mailing lists • Text management

Distribution medium: magnetic tape.

This processor performs on-line screen entry list maintenance and envelope/label production and features list creation, address entry, duplicate-entry detection, and list extraction. Each list is created with an identifier and 12 data fields. Additional data fields and their edit characteristics can be defined for each list. ALP's benefits include easy maintenance of large mailing lists, automatic elimination of duplicates on command, and choice of subsets of list based on user-selected data fields.

Address records can be entered from a keyboard to a formatted screen or from lists supplied on tape. Individual field editing is performed, including state abbreviation and zip code validation checking. Canadian and foreign addresses are accepted.

Lists may be removed to tape or separate files for backup. Address records may be updated, deleted, or displayed individually.

Labels can be printed 1-, 2-, 3-, or 4-up Cheshire or self-adhesive on any width larger than three inches. Envelopes may also be printed.

ALP creates a word processing list file for production of personalized letters. A user installation/instruction guide is included.

A version of this product is available for the VAX computer.

Price: \$1995

Contact: Neal J. Anderson, Senior Product Specialist
(414) 784-8250

MCHUGH, FREEMAN AND ASSOCIATES, INC.
1135 Legion Drive, P.O. Box 454
Elm Grove, WI 53122

BDS (Bank Disbursements System)

Operating System: RSTS

Keywords: • Accounts payable • Banking • Billing
• Purchasing

BDS, written in BASIC, facilitates the payment of vendor invoices in a banking institution by providing improved efficiency over the bill payment operation. Information entered into the system is edit checked for more accurate bill payment. Additionally, a complete audit trail is provided of all checks processed.

All checks are printed on continuous forms, using high-speed printers. The printed checks are designed to fit standard window envelopes.

Vendor names, addresses, and general ledger numbers are stored in files, allowing the operator to enter only a short code for the complete name, address, and G/L number. All data entered is checked for accuracy and is displayed for a second visual check.

All accounting entries are produced on a journal report detailing each entry by G/L number. Additionally, all accounting entries may be automatically allocated to a total of 36 cost centers. Detailed reports are prepared for all cost allocations.

Posting to the bank's general ledger can be in detail or in summary by G/L totals based on the accounting journal report. A complete audit trail is provided, indicating all data entered to the system.

All programs are controlled by two levels of passwords. Programs can be executed only from a menu.

A version of this product is available for the VAX computer.

Price: \$3000 – \$5000

Contact: Salvatore Cangialosi, President
(212) 946-5796

PRIME ASSOCIATES, INC.
38 Paerdegat 7 Street
Brooklyn, NY 11236

BOS/AutoIndex

Operating System: BOS/5, MBOS/5

Keywords: • Data base management • Query facilities

BOS/AutoIndex, a data storage and retrieval system, uses data base techniques to automate the functions performed manually — searching through a card index or a file cabinet. BOS/AutoIndex runs under the single-user BOS/5 and multiuser MBOS/5 operating systems. Under MBOS/5, BOS/AutoIndex allows more than one user to access and update the data base concurrently without loss of data integrity.

Price: \$550 – \$900

Contact: Ron Moore
(214) 484-2717

BOS NATIONAL, INC.
2560 Royal Lane #228
Dallas, TX 75229

BOS/Planner

Operating System: BOS/5, MBOS/5

Keywords: • Financial analysis • Financial planning
• General ledger • Spreadsheets

BOS/Planner, a spreadsheet program aimed at financial planning and modeling, runs under the single-user BOS/5 and multiuser MBOS/5 operating systems. BOS/Planner provides facilities for budgeting, cash-flow forecasting, depreciation calculations, net present value, internal rate of return, and combining and consolidating plans.

Price: \$550 – \$900

Contact: Ron Moore
(214) 484-2717

BOS NATIONAL, INC.
2560 Royal Lane #228
Dallas, TX 75229

BOS/Writer

Operating System: BOS/5, MBOS/5

Keywords: • Word processing

BOS/Writer is a powerful, menu-driven word processor that runs under the single-user BOS/5 and multiuser MBOS/5 operating systems. BOS/Writer provides all the facilities necessary for processing office paperwork, including document creation, updating, printing, archiving, and merging. BOS/Writer can merge data from a business application to a document, thus integrating data processing with word processing.

Price: \$550 - \$900

Contact: Ron Moore
(214) 484-2717

BOS NATIONAL, INC.
2560 Royal Lane #228
Dallas, TX 75229

Bridge/86

Operating System: RSTS, RSX, ULTRIX-11, UNIX* (Version 7)

Keywords: • Communications • File management
• Personal computing • Printing

The Bridge/86 system is used primarily in office automation projects and for software development. Virtual microcomputing is available at every terminal attached to the mini. Thus, users may move to an LP/M, MS-DOS, or p-System environment that is tightly linked to other users. File storage, printing backup, and so forth are done at the host machine, yet the user sees a normal microcomputer environment. Thus, the system manager may provide personal computing as an option to current system users, without purchasing separate units.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$500 - \$7500

Contact: Deryk Van Brunt
(415) 841-9594

VIRTUAL MICROSYSTEMS
2150 Shattuck Avenue #720
Berkeley, CA 94704

CFMS (Computerized Forms Management System)

Operating System: UNIX* (System III, System V)

Keywords: • Forms management • Inventory • Printing
• Purchasing

The CFMS system consists of five modules that cover specific forms management areas. Although the modules are independent, they are also compatible. Some users group individual modules into larger systems to maximize the potential operating efficiencies and associated dollar savings. The modules share advanced forms management concepts and software technology.

The Forms Management Module collects data on company forms, documents, and supplies and makes otherwise inaccessible data immediately available. This module also provides a standardized data base to identify duplication and promote consolidation, prevent miscommunication, promote cost reductions through ordering efficiencies, track and monitor forms activity, and help users understand total form requirements.

The Forms Control Module maintains inventory records for forms and supplies, accurately enforces proper form inventory levels, prevents out-of-stock situations, and limits premature ordering, excess storage costs, and so on. The module also identifies obsolete or superfluous forms, provides true current inventory values, and puts "teeth" into inventory management for forms.

The Forms Buying Module allows the user to standardize decision-making data and collect vendor information. This module also generates requests for quotations, purchase requisitions, and/or purchase orders.

The In Plant Printshop Module controls and monitors in-house print shops on a cost basis equivalent to that of outside suppliers.

The Records Management Module provides a systematic approach to establishing and controlling the available storage space, retention schedules, and record access management for forms once they are used and thus become records.

All modules include a flexible and sophisticated Report Generator (REPORTGEN), which presents accurate, clearly formatted information to management, based on data maintained by the system.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$15,000 - \$100,000

Contact: Steve Wallman, Vice President, Sales and Marketing
(312) 634-1120

COMPUTERIZED FORMS MANAGEMENT, INC.

350 Half Day Road

Prairie View, IL 60069

CPS Word Processing System

Operating System: RSTS

Keywords: • Text management • Word processing

This system consists of two stand-alone packages: a text editor (REVISE) and a text formatter.

Written in BASIC-PLUS, REVISE runs on 10KW of memory and is line oriented for better system response time. Also, swapping is reduced because of the system's small, 10KW size. REVISE is thoroughly debugged and is easy to use. A user needs less than an hour to learn and remember fewer than 10 simple commands. REVISE is documented and includes a tutorial session. REVISE features unlimited secondary input and output files, easy commands for duplicating and moving, the ability to make global changes within the buffer area, and the ability both to define a shift character so that upper/lowercase may be input from an uppercase-only terminal and to insert or change nonprinting characters. In addition, a backup file is always created in case the program should end abnormally. CTRL/C is disabled for total protection.

The text-formatting programs permit text to be entered and edited in an easy, unformatted way and then to be cleaned up. Little attention need be given to where the right margin is. Even if a line contains only one word, the program will reformat the line. Many formatting and special options are available—automatic centering, underlining, page numbering, line spacing, super- and subscripting, right justification, and so forth. (However, not all features may be available for all printers.)

The system supports normal, non-letter-quality printers (such as the LA180 and LA120), the AJ832 letter-quality printer, and the DIABLO 630 letter-quality printer with word processing option. The programs are and can be modified for other printers.

Price: \$500 – \$850

Contact: Robert Sendek, Computer Specialist
(212) 644-1749

POPULATION COUNCIL
One Dag Hammarskjöld Plaza
New York, NY 10017

CT*OS Utilities Package

Operating System: RSTS, RSX, RT-11, TSX-PLUS

Keywords: • Documentation • Software utilities
• Text management • Word processing

This set of utility programs for the CT*OS word processing system includes a list file sorter, an index restore utility, an index print utility, and a document repair utility.

The CT*OS list file sorter lets CT*OS list processing users collate their list files into ascending or descending order on any field or combination of fields in the list.

The CT*OS index print utility generates a listing of the CT*OS documents in a directory or account. The listing may be sent directly to a printing device or to a file. A printed copy is especially useful when making a backup of a word processing directory. The copy allows the user to maintain a printed list of the documents with the backup media, for later reference.

The CT*OS restore index utility restores or creates a new CT*OS index file if the existing one becomes corrupt or is deleted.

The CT*OS document repair utility provides a best-effort attempt at restoring an improperly filed document or a document that has become corrupt.

A version of this product is available for the VAX computer.

Price: \$175 - \$500

Contact: Paul Harris

(818) 796-9374

COMPU-TOME, INC.

234 East Colorado Boulevard

Pasadena, CA 91101

CT*OS Word Processing

Operating System: RSTS, RSX, RT-11

Keywords: • Documentation • Menu handlers
• Text management • Word processing

This full-featured word processing software package, which emulates DIGITAL's WPS78 software, runs on PDP-11s, VAX-11s running VMS, P/OS on the Professional 300 Series, and under CP/M 86 on the Rainbow.

CT*OS is a menu-driven system that includes spelling correction, list processing, user-defined keys, ASCII file transfer, scientific-character generation, and table of contents/index generation. Those features are supplemented with the more standard word processing functions, such as cut and paste, auto-word wrap, glossaries, and so on. CT*OS is written in MACRO-11, resulting in a CPU efficiency not often found in word processing systems.

A version of this product is available for the VAX computer.

Price: \$950 - \$6500

Contact: Paul Harris

(818) 796-9374

COMPU-TOME, INC.

234 East Colorado Boulevard

Pasadena, CA 91101

Data Search

Operating System: RT-11

Keywords: • Documentation

This system provides indexing for source documents and may be used in conjunction with Bell & Howell Image Capture and Image Output terminals. Documents may be indexed or cross-referenced by using up to 15 descriptors that may be autorepeatable, autoincrementing, and updatable.

Price: \$15,000 - \$25,000

Contact: Paul A. McAllister

(312) 675-7600

BELL & HOWELL

6800 McCormick Road

Chicago, IL 60645

Date*Book

Operating System: RSTS, RSX

Keywords: • Information management • Project management
• Scheduling

Distribution medium: 9-track magnetic tape.

This calendar management system organizes and schedules time. Date*Book maintains an appointment calendar for each user and provides reminders of upcoming events by means of a tickler file. Date*Book is interactive, works on any terminal, and is user friendly but provides shortcuts for advanced users. Designed for the medical practice or business office, Date*Book can also be used to manage resources, such as conference rooms, computers, or other facilities and equipment.

Date*Book enables users to schedule new events or cancel or reschedule existing ones, automatically schedule a group meeting by finding a mutually available time slot for each person, and notify each member when a meeting is canceled or rescheduled. Each user's schedule is private. Users may request a listing of events for a given day, week, or month.

Date*Book uses simple commands, prompts the user for the next command, detects user errors, and provides understandable error messages and a help facility.

A version of this product is available for the VAX computer.

Price: \$1000 - \$5000

Contact: Donald Rubin, President

(301) 982-1818

SYSTEMS ENGINEERING TECHNOLOGY INC.

10676 High Beam Court

Columbia, MD 21044

DECmail-11, Version 2.0**Operating System:** Micro/RSTS, Micro/RSX, RSTS, RSX**Keywords:** • Electronic mail • Networking**Distribution media:** 9-track 800/1600 bpi magnetic tape, RK07, RL02, RX50.

This electronic message system runs on the RSTS/E, Micro/RSTS, RSX-11M-PLUS, and Micro/RSX operating systems. On a single-node system, DECmail-11 can create, edit, send, and process messages and store, search for, and retrieve messages held in user folders.

DECmail-11 can operate in a network environment by using DECnet/E for RSTS and DECnet-11M-PLUS for RSX. The Message Router, an optional product for the network environment, provides a store-and-forward transport mechanism among RSTS/E, RSX-11M-PLUS, and VAX/VMS nodes. DECmail-11 acts as a user-agent to the Message Router.

DECmail-11 users may use the EDT text editor for preparing text messages. The EDT option provides the power of the standard editor without the need to learn a new set of editing commands.

DECmail features include on-line help; message creation, answering, and forwarding, with or without editing; message filing into folders; selective display of message listings by author or subject; distribution lists; message printing and deleting; the ability to send, as a message, an ASCII text file (stream, variable, fixed, or sequential) created outside the DECmail-11 environment; and the ability to export message text into RSTS/E, Micro/RSTS, RSX-11M-PLUS, or Micro/RSX files.

Refer to SPD #13.19.04 (RSTS) or SPD #13.27.00 (RSX) when requesting further information on this product from your local DIGITAL sales office.

A version of this product is available for the VAX computer.

Price: \$80 - \$1060**Contact:** Consult your local DIGITAL sales office (see Introduction).**DECMail™ PLUS****Operating System:** RSTS**Keywords:** • Decision support • Electronic mail

DECMail/RSTS, an electronic mail package patterned after DECMail/VMS, is a way to integrate DECMail with WORD-11 on your RSTS/E system. DECMail/RSTS includes:

- WAFE — a WORD-11-like editor for DECMAIL so your mail users will see the same keyboard interface for message editing that they use now for WORD-11
- Patches — modifications for RSTS/E V7.1, 7.2, or 8.0 to notify users when they log in that they have pending mail
- Logging program — a system management program to help monitor DECMAIL use
- WORD-11 Option — an option program for the WORD-11 main menu to permit sending a document, which will be converted to a text file and passed to DECMAIL

Price: \$1000 - \$3500

Contact: Eric L. Moothart, Software Marketing Director
(714) 970-1515

DATA PROCESSING DESIGN, INC.

1400 North Brasher Street
Anaheim, CA 92807

DECWORD/DP, Version 1.2

Operating System: RSTS

Keywords: • Computer-aided instruction • Text management
• Word processing

Distribution media: 9-track 800/1600 bpi magnetic tape, RK05, RK06, RK07, RL01, RL02.

DECWORD/DP supplements RSTS/E data processing capabilities with word processing capabilities and features menu-driven document processing, including word and list processing, communications, and computer-based user instruction (CBI). DECWORD/DP editing capabilities permit the user to input and correct text without retyping. List processing allows production of many identical or similar documents, including reports, customized letters, and mailing lists. Math and sort utilities permit the user to manipulate data within the list processing documents.

CBI provides on-line self-paced instructions to teach basic word processing skills. The course is comprised of 11 basic word processing lessons, which allow the user to build confidence in the use of DECWORD/DP and the keyboard. CBI is task oriented rather than feature oriented. By following simple commands at the terminal, trainees can learn to perform straightforward tasks, such as writing and printing a letter.

DECWORD/DP should be managed and supported by RSTS/E data processing staff, who can manage system resources and ensure that users are adequately trained. System management is provided by a combination of RSTS/E utilities and DECWORD/DP utilities. Installation, user management, and document management are clearly described in the DECWORD/DP manager's manual set.

Refer to SPD #13.14.04 when requesting further information on this product from your local DIGITAL sales office.

Price: \$80 – \$4500

Contact: Consult your local DIGITAL sales office (see Introduction).

DIGIttext Word Processing System

Operating System: RSX

Keywords: • Spreadsheets • Text management
• Word processing

Distribution media: magnetic tape, RL02.

This word processing system is available as a single-user version or as a large multiuser system. DIGIttext creates and maintains address and hyphenation files; administrates documents and standard text; creates and modifies text, using the comprehensive text editor; performs list processings, including text from standard text and address files; and supports print modules for Qume, Diablo, Olivetti, and DIGITAL printers.

In addition, DIGIttext interfaces to the following program packages to support full implementation of an office automation strategy:

- DIGIsread, a fully integrated electronic spreadsheet calculator that facilitates combining textual data and tabular data in one document.
- DIGIttrieve, a system for retrieving documents, memos, reports, and correspondence in a user-defined filing system.
- DIGImail, a message-switching and distribution package available in networks consisting of Professional 300s, PDP-11s, and/or VAXs. Features include password protection, transmission and receipt of messages, use of distribution lists, an electronic file system, and a message retrieval system.
- DIGIsPELL, a spelling checker and dictionary that is user expandable to learn user-unique terminology.
- MEMO-11, a calendar system for appointment or conference scheduling in 15-, 30-, or 60-minute increments and automatic visual or audio reminder of approved schedules.
- TELTEX-11, a telex system for automatic transmission and receipt of telex messages. A document created by DIGIttext may be immediately used as a telex message; telex messages may be received around the clock in unattended mode; and automatic dialing and answering facilities are provided.

A version of this product is available for the VAX computer.

Price: \$3500 - \$14,450

Contact: Robert L. Hirtle, Office Manager
(904) 433-7578

ATS DATA PROCESSING, INC.

1101 North 9th Avenue

Pensacola, FL 32501

Dreams

Operating System: RSTS

Keywords: • Documentation • Electronic mail • Networking
• Text management

Distribution medium: magnetic tape.

This electronic mail system has been installed in a wide range of business and academic environments. Development of new capabilities is a continuing process, with support and updates for Dreams users. Dreams has been one of the pilot project mail systems in the developing EDUCOM-sponsored Mailnet network linking college electronic mail systems. Thus, easy accessibility to the network is ensured with Dreams.

The current version of Dreams is compatible with DECnet for message transmission to distant nodes and with MAILNET. EDT, DECword, WORD-11, TECO, or other editors can be invoked, with a smooth transition to and from the editor. A flexible method for accessing and maintaining multiple mail files is provided. Subjects for mail files as well as individual messages are available. Unread messages can be retracted and recovery made of the last deleted message. Dreams can specify times as well as dates in relative or absolute form to control message appearance or expiration or to narrow selection criteria. Dreams is fully compatible with Batch, for keeping abreast of unattended operations and for implementing a repetitive reminder system based on day of the week or other longer intervals. Dreams provides message acknowledgment of receipt or expiration of messages.

In addition, the system manager may assign defaults for accounts, projects, and the entire system, including the assignment of certain privileges. Messages may be sent to names, nicknames, or groups and may be scanned, replied to, forwarded, or stored for later appearance. New, old, priority, or suppressed messages are available for each mail file. Messages are automatically routed.

A version of this product is available for the VAX computer.

Price: \$1500 - \$5000

Contact: Thomas W. Burtnett, Director
(717) 245-1256

DCXX SOFTWARE SERVICES
Dickinson College Computer Center
Carlisle, PA 17013

DTC (Desk Top Calendar)

Operating System: IAS, RSX

Keywords: • Presentation aids • Printing • Scheduling

The program allows day-, week-, or month-at-a-glance displays; private and public calendar appointment files; meeting scheduling; multiple-appointment setup; evening appointments; and other functions. DTC runs on a VT100 but can be modified for other terminals. Build files are supplied for PDP-11 (RSX) and VAX. DTC may run under RT-11 if F77-type constructs are changed to FORTRAN IV. An RSX task image, not requiring a floating point, is supplied for users who lack the F77 compiler. VAX users are assumed to have access to native-mode FORTRAN; on VAX, DTC runs in native mode. DECUS number 11-597.

Note: Added multifile ability; purging of old appointments, meeting scheduling, bug fixer, free-time searching, and simpler appointment entry are provided.

A version of this product is available for the VAX computer.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

EXECmail

Operating System: RSTS

Keywords: • Electronic mail • Text management
• Word processing

Distribution medium: magnetic tape unless otherwise arranged.

This high-performance electronic mail software package encourages correct communication skills and helps the user complete communication cycles. Communications in a series are linked, and earlier messages can be reviewed with a few simple keystrokes.

The easy-to-use menu-driven EXECmail system has single-key commands and offers detailed help prompting. Written in native MACRO assembly language, using systems programming techniques, EXECmail is fast and efficient. Only one disk block for each message is required, so the system will not be clogged.

Messages of any length, documents, and files are transferred at electronic speed. EXECmail can be used to relay text, graphics, binary programs, documents, and computer files.

Features include use of an in-basket, pending-basket, out-basket, and wastebasket. An alert of new mail is received when the user logs on to the system. Message status can be seen at a glance. Messages can be sent to individuals or groups.

DECnet-compatible EXECmail is available with the full-featured, sophisticated CT*OS Word Processor built in for creating and reading documents.

A version of this product is available for the VAX computer.

Price: \$2690 - \$16,000

Contact: Sally Jensen, Marketing Director
(213) 461-6688

EXECUTIVE SOFTWARE, INC.

5537 Tuxedo Terrace

Los Angeles, CA 90068

FinalWord

Operating System: UNIX* (Version 7), VENIX

Keywords: • Documentation • Text management
• Word processing

FinalWord is a full-screen editor and text formatting package that runs on the VENIX operating system. The package runs on the Professional 350, PDP-11, and VAX computer systems.

As an editor, FinalWord is easy to learn for beginners but has extensive features for advanced users. Menus are available when needed but are transparent to speedy users. The user can define function keys — for example, delete and save or find a file. Several files can be edited and displayed at once. Global search and query keys allow for rapid movement and editing within the text.

With FinalWord formatting, chapter headings, footnotes, subsections, appendixes, and indexes are numbered and positioned automatically. The layout and formatting commands can be embedded in the text or in separate files. FinalWord can justify text with true proportional spacing, print boldface and underline text, and use special fonts if available on the user's printer. The formatted text can be previewed on the screen and saved in a file to be printed immediately or at a later time.

FinalWord supports a wide variety of terminals and printers.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Business Software

(617) 661-1230

VENTURCOM INC.

215 First Street

Cambridge, MA 02142

Handle Business Graphics

Operating System: ULTRIX-11, UNIX* (Version 7)

Keywords: • Graphics • Presentation aids • Printing

Handle Business Graphics is a fully interactive package for generating powerful business graphic drawings. Drawings can be moved from page to page as documents are enlarged or shortened. Multiple drawings are allowed in any text document.

Pie, line, and bar charts (stacked or grouped) can be generated from either raw data or a Handle Calc model. Handle Business Graphics also permits up to four plots within a drawing. Any graph can be displayed within a Handle Writer document and printed with the document on a letter-quality or dot matrix printer. Or, the space can be saved and the graph plotted on the document with a color plotter. In every case, the correct size of the plot is "remembered" by Handle Writer and correctly drawn in.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$295

Contact: Karan Kauppila

(916) 583-7283

HANDLE CORP.

P.O. Box 7018

Tahoe City, CA 95730

Handle Calc

Operating System: ULTRIX-11, UNIX* (Version 7)

Keywords: • Financial planning • Mathematics

• Spreadsheets • Statistics

Handle Calc/Math produces electronic spreadsheets and provides a comprehensive interactive math package. Users can produce virtual spreadsheets, user-defined columns, sorting, an execute file, worksheet consolidation, and formatting.

Handle Calc can also generate pie and bar charts from any Handle Calc model by using Handle Graphics. Windowing and title locks are additional features.

Handle Calc/Math is fully interactive with Handle Writer, Handle Graphics, and Handle List. The package enables the user to insert and do mathematical calculations in a Handle Writer document and is completely function key driven.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$395

Contact: Karan Kauppila
(916) 583-7283
HANDLE CORP.
P.O. Box 7018
Tahoe City, CA 95730

Handle Spell

Operating System: ULTRIX-11, UNIX* (Version 7)

Keywords: • Text management • Word processing

Handle Spell offers automatic spelling checking and correction and features an 80,000-word dictionary and user-defined spelling dictionary with Handle's unique phrase-recall option. Handle Spell-Proofer allows the user to correct misspelled words with the correct word by using simple keystroke commands.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$125

Contact: Karan Kauppila
(916) 583-7283
HANDLE CORP.
P.O. Box 7018
Tahoe City, CA 95730

Handle Writer

Operating System: ULTRIX-11, UNIX* (Version 7)

Keywords: • File management • Report writer
• Text management • Word processing

This comprehensive word processor and filing system supports mail merge, document indexing, cataloging, and archive cataloging. Complete password security controls limit access to the entire system or only to selected documents. Mail boxes, interoffice memos, and corporate reading files offer the user office automation features in a word processor that can be accessed by single-keystroke commands.

Handle Writer maintains complete catalogs and archive catalogs of all documents created. Documents can be indexed (filed) under multiple subject titles. An operator can also ask for selected documents to be displayed from the catalog or for all unsecured documents to be displayed.

Detailed user profiles are a step-by-step computer-prompted use or style sheet. Easy question-and-answer sessions prompt the user to configure the work being done at each terminal, define who is at that terminal, passwords, default printers, preferred formats, and menu selections.

In addition, import/export capabilities allow Handle Writer to read system files or UNIX* mail files and to create Handle documents. Handle Writer also can export any document to system files or to a UNIX* mail box.

When bundled with Handle Graphics, Handle Writer enables the user to include text business graphics, printed either on a dot matrix printer or on a color graphics plotter. Drawings of any size can be placed in a document and can be viewed in exact form, using Handle's proof mode.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$595

Contact: Karan Kauppila

(916) 583-7283

HANDLE CORP.

P.O. Box 7018

Tahoe City, CA 95730

IB Graph

Operating System: RSTS

Keywords: • Decision support • Documentation • Graphics
• Report writer

This menu-driven system allows users to produce different types of pie, bar, and line graphs. For example, IB Graph can produce horizontal and vertical bar graphs, floating bars, and bars with depth. Users may explode any number of segments of a pie. Shaded line graphs are possible.

Data is easily captured. Data may be either entered by the operator or captured from existing data bases through the menu-based system. Thus, no new code needs to be written to convert data for plotting.

IB Graph supports a wide range of plotting devices: VT125s, VT240, VT241, TEK4105s, LA34s, LA100s, Printronix Line Printers (LXY/11 and LXY/21), and Hewlett-Packard Plotters with an HPGL or HPIB interface.

782 Office Systems

A version of this product is available for the VAX computer.

Price: \$3000 - \$9500

Contact: Eric Moothart, Software Marketing Director
(714) 970-1515

DATA PROCESSING DESIGN, INC.
1400 North Brasher Street
Anaheim, CA 92807

IB Slide

Operating System: RSTS

Keywords: • Decision support • Flowcharts • Graphics
• Presentation aids

This easy-to-use product enables office personnel to produce word charts, organizational charts, or flow diagrams. IB Slide helps create graphics for any presentation.

IB Slide's clear and concise menu system has been designed for all users, even those with little or no computer expertise. With IB Slide, today's office professionals can quickly create presentation-quality graphics, 35-mm slides, transparencies, and high-resolution plots. In addition, IB Slide can edit business charts produced by IB Graph. IB Slide allows the user to create charts that contain both free-form text and shapes and to save and recall charts from disk. With IB Slide, users can create a library of commonly used shapes for easy assembly of complex charts.

Interfaces are available to outside applications — WORD-11 and IB Graph, for example. IB Slide supports a wide range of DIGITAL hardware, as well as high-resolution Hewlett-Packard pen plotters.

A version of this product is available for the VAX computer.

Price: \$2500 - \$4500

Contact: Eric L. Moothart, Software Marketing Director
(714) 970-1515

DATA PROCESSING DESIGN, INC.
1400 North Brasher Street
Anaheim, CA 92807

ICT (International Cable Testing System)

Operating System: RSTS

Keywords: • Banking • Security • Telecommunications

This turnkey software package completely automates the testing function while improving accuracy, control, security, and efficiency. The system can store all test key tables, fixed numbers, and incoming and outgoing consecutive numbers for all banks entered in the system. All transaction information is stored in the ICT System, thus eliminating the need for manual logs. To help eliminate errors and

their penalty costs, the ICT System will alert the testing clerk of duplicated incoming consecutive numbers and incorrect tests. Additionally, a telex is prepared by the system for all missing incoming consecutive numbers.

Reports are produced daily, indicating all test transactions, incorrect and duplicate tests, and missing consecutive numbers. That feature aids in the management of the testing area, which traditionally has had few management controls. As the calculation of all tests is automatic and operator input is both minimal and checked for errors, the accuracy of this system will far surpass that of other methods. In addition, the time required to test daily messages is substantially reduced. Storage space in a testing department will be increased by removing actual test key files.

More than 1000 banks can be stored on the ICT System.

A version of this product is available for the VAX computer.

Price: \$5000 - \$10,000

Contact: Salvatore Cangialosi, President
(212) 946-5796

PRIME ASSOCIATES, INC.
38 Paerdegat 7 Street
Brooklyn, NY 11236

IND/DEV-11 (Industrial Development Management System)

Operating System: CTS-300, RT-11

Keywords: • Financial analysis • Mailing lists
• Property management • Word processing

Distribution media: RK07, RL01, RL02, 9-track 800 bpi magnetic tape.

This comprehensive interactive system for managing an industrial development organization is written in DIBOL and consists of seven standard modules and three optional modules. The standard modules are Target Mailing, Prospect Tracking, Site and Building Management, Contributors/Membership, Prospect Financial Analysis, Loan/Payback Analysis, and Word Processing. The optional modules are General Ledger, Payroll, and Accounts Payable.

The standard modules include the means to implement a personalized mailing campaign to both target and prospect companies, the ability to maintain close contact with those companies, maintenance of current member/contributor records and the solicitation of potential members and contributors, maintenance of a comprehensive listing of sites and buildings available to prospective companies, the preparation of a financial analysis report on a prospect to evaluate the financial strengths of the prospect company, the preparation of a

loan/payback analysis report showing the principal and interest to be paid over the life of the loan, and more. The optional modules include the basic elements to handle and record payroll and expenditures and to keep track of the financial status of the developer's organization.

Each turnkey system includes user-friendly procedures, on-site training, and continuous support. Program modification and customization are available. A sample packet containing reports, forms, and screen layouts is available. Dealer inquiries are encouraged.

Price: \$5000 - \$8000

Contact: Robert L. Metzger
(504) 542-1479

DIGITAL COMPUTER SYSTEMS, INC.
31 Darrell Drive
Hammond, LA 70401

INmail

Operating System: IS/3, IS/WB

Keywords: • Electronic mail • Networking

This electronic mail sending and receiving facility is a flexible routing system with reply and forwarding features and secondary mailboxes. The program interfaces with remote UNIX* systems using INnet and/or uucp.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Ted White
(213) 450-8363

INTERACTIVE SYSTEMS
1212 7th Street
Santa Monica, CA 90401

InterText™

Operating System: DSM

Keywords: • Data entry • Pre- and postprocessors
• Text management • Word processing

This complete word and text processing system can be used on either standard CRT terminals or terminals with advanced video options. InterText has been designed so that variable names can be embedded in the texts. The user can fill in those variables when the texts are printed. Special preprocessors and scans can be defined that will derive the values to be printed from any data base that coexists on the same disks with InterText.

Like any other word processing system, InterText may be considered a smart typewriter for writing, editing, and printing text. After being created and edited, a text file may be printed in a formatted version, which InterText accomplishes by interpreting formatting controls in the text and those that are defined by the user at the time of printing.

The user may print text by itself, in a stream with other text files, or by using InterText's special processor option. At each printing, the user is requested to indicate the text file(s) to be printed, what spacing (between lines) is required, the number of copies to be printed, and the margins to be used. If the special processor option is used, the user also specifies which processor is to be used, and the system will select the output on the basis of that processor, filling in variable data as it proceeds.

A version of this product is available for the VAX computer.

Price: \$2500

Contact: Alexander J. Phillips, President
(201) 256-7633

INTERACTIVE SYSTEMS AND MANAGEMENT CORP.
1500 Cardinal Drive
Little Falls, NJ 07424

LABELS (The Mailing List System)

Operating System: RSTS

Keywords: • Mailing lists

Distribution media: 9-track 800/1600 bpi magnetic tape, RK07, RL01, RL02.

LABELS is an interactive system for developing, maintaining, and printing a mailing list and/or mailing labels. A master file record contains fields for company name, first name, last name, two address lines, city, state, a 5- or 9-digit zip code, and phone number. A 2-character field for a geographic region code, five 2-character fields for category codes, and five 2-character fields for specialty codes are optional.

In creating a mailing list, the user has the option of choosing up to nine categories and up to nine specialty codes, plus a specific geographic region or all regions. The system then gives a record count listed by the first three digits of the zip code and gives the user the option of deleting certain zip codes from the listing. The system gives the user the option of creating multiple listings for each addressee and produces a user-named output file. The system also contains a menu option for determining the record count for each zip code of the master file.

The system supports check-digit numbering systems. Output is on 3½" x 1" labels, one or three across.

A version of this product is available for the VAX computer.

Price: \$1500 - \$2250

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

Latitude™

Operating System: UNIX* (System III, System V, Version 7)

Keywords: • Spreadsheets • Word processing

This business and office automation software provides word processing and spreadsheet functions. Latitude features simple, English-like commands that allow the user to write and edit text and arithmetic in the same document. The Tabulator™ command panel allows the user to create a spreadsheet in a document. Full spreadsheet abilities provide for analytical financial statements as large as four 8½" x 11" pages.

Word processing features include the ability to insert boiler plate words, phrases, and formulas; a 45,000-word spelling checker; on-line help; and formatting facilities.

User documentation, training materials, installation instructions, and reference materials are supplied.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$2395 - \$4995

Contact: Alison Baker
(415) 543-1199

HORIZON SOFTWARE SYSTEMS, INC.
#4 China Basin Building
185 Berry Street, Suite 4821
San Francisco, CA 94107

LEX-11

Operating System: CTS-300, IAS, RSTS, RSX, RT-11,
TSX-PLUS, ULTRIX-11, UNIX* (Version 7)

Keywords: • Forms management • Report writer
• Text management • Word processing

LEX-11 is integrated word and list processing software with office automation and data management facilities. The package offers full-screen editing, single-keystroke functions, menu customization, forms creation and recall, multiple-column text entry, cut-and-paste

functions, a calculator, ASCII-formatted files, and no embedded codes. Options include an on-line training guide, a 90,000-word spelling checker, and a desk diary.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$550 - \$7500

Contact: Mercia Dickman, Marketing Director
(617) 443-5106

EEC SYSTEMS INC.
327/E Boston Post Road
Sudbury, MA 01776

MAIL: Electronic Mail Package for RSTS/E

Operating System: RSTS

Keywords: • Electronic mail • Networking

Memory required: 12KW.

This electronic mailing program for the PDP-11 running the RSTS/E operating system allows any user to send mail to another user by account. MAIL will protect from users sending mail if the receiver does not wish to receive. MAIL uses a 12KW job and was developed on an educational system for students. DECUS number 11-673.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Mail List/RXS

Operating System: RSX

Keywords: • Mailing lists

Distribution medium: RX02.

Mail List/RXS, running under the RSX-11M or RSX-11M PLUS operating system, is a total, multiuser, menu-driven mailing list package for companies and organizations searching for a comprehensive automated system for maintaining mailing list records and printing mailing labels. Mail List/RXS offers maximum efficiency and ease of use. Multiple users can simultaneously access the mailing list data to add, delete, inquire, or change names.

In addition, Mail List/RXS includes provisions to flag local companies for special mailings or to include competitors on the list without printing mailing labels for them. Users can be trained to use Mail List/RXS very quickly, avoiding costly training programs.

Mail List/RXS includes license and documentation. Other distribution media are available at an additional cost.

Price: \$495

Contact: Sandra K. Graham, Operations Manager
(617) 894-3278

ADVANCED COMPUTER SYSTEMS, INC.
250 Prospect Street
Waltham, MA 02154

Mail Package

Operating System: RSTS

Keywords: • Electronic mail • Networking

Memory required: 16K.

The four Mail Package programs provide all the facilities necessary to create and maintain a sophisticated "postal" system for RSTS/E users. To use the system, a user must first register by entering his or her name into a Mail user data file ledger. That is done only once. From then on, the user's name is associated with his or her account number, and the user is allowed to send and receive mail. Mail bearing the sender's identification is sent directly into the recipient's account. DECUS number 11-326.

Note: Certain features necessary for proper operation of the programs are not implemented in previous versions of RSTS. The programs' data files require a minimum of 250 blocks; that figure could expand to 400 blocks if all possible system accounts are occupied by only one individual.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

MAILER (Mailing List System)

Operating System: RT-11, TSX-PLUS

Keywords: • Mailing lists

Distribution media: RX01, RX02.

These nine programs for maintaining and using mailing lists allow you to assign a group code name or number, an identification key name or number, and comments to each address. The address number and entry date are automatically entered by the computer.

Addresses can be sorted and printed by a person's last name, company name, or zip code. You can select only certain group codes, identification keys, address numbers, or dates to be printed. The programs print both address labels and address listings for your records. The Zip Code Sort is useful for bulk mailings.

Additional options enable you to look up an address when only some information is known. For example, you can look up all persons named Sam in Maryland or all persons living on Evergreen Street. (Program options are accessed from the master program, MAIL.)

You can print a category report that lists all the group codes and identification keys used and the number of addresses in each code or key. One program compares addresses and prints out possible duplicates.

These mailing list programs are written in BASIC-11. A well-written, easy-to-use user's manual is included.

Price: \$450

Contact: Raymond H. Green
(813) 360-1967

RAY GREEN AND ASSOCIATES
603 55th Avenue
St. Petersburg Beach, FL 33706

Mail/Message System

Operating System: RSTS

Keywords: • Electronic mail • Networking

Memory required: 11K words.

The Mail System allows mail/messages to be sent to system users, whether or not they are using the system. Mail may be read, sent, deleted, and moved to or sent from existing files. Each member of the system has a "mail-box" file on his or her account. An append file for the LOGIN program is provided, as are utility programs for creating and initializing "mail-box" files and adding new users to the valid mail system users' list. A user's guide and technical specifications document are provided. DECUS number 11-287.

Restrictions: Current implementation is for a 24-hour, not A.M./P.M., clock.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

MATRIX Transaction Exchange

Operating System: RSTS, RSX, RT-11

Keywords: • Electronic mail • Networking
• Telecommunications

This enhanced, friendly, menu-based computer conferencing system features advanced electronic communications, such as sophisticated text conferencing with unlimited conferences, discussions, and personal memo areas. MATRIX also provides on-line help and instruction, a bulletin board, a directory, and electronic mail. MATRIX can be purchased or timeshared.

MATRIX offers more than 200 user functions and more than 60 management functions for the system operator, conference manager, and discussion leader. Management reports and accounting functions are available to all levels, including the MATRIX user.

The following is a partial list of computer conferencing system features:

- On-line meeting and management conferencing features simultaneous access to text (data) files by different persons in different locations and group-to-group communications with special areas for electronic meetings and discussions.
- Personal notepad and work areas feature password-protected files or memo areas that are kept on line for ease of use. Notes or memos can be sent to other conferees, to conference discussions, or to the bulletin board.
- On-line bulletin board features systemwide access by participants for company notices, policy procedures, and other activities.
- Status and tracking functions include information about current mail, comments, and new items added to the system.
- Management reports and directories provide reports about mail and conference activity, such as a directory of conferences and members located throughout the system.
- Electronic mail/messaging features one-to-one messaging, including new-message announcements, filing, renaming, editing, and forwarding.

A version of this product is available for the VAX computer.

Price: \$10,000

Contact: Robyn Rehbein, Product Manager
(303) 444-8877
ITC CORP.
1877 Broadway
Boulder, CO 80302

Memo

Operating System: RSTS

Keywords: • Data collection • Data entry

Memory required: 9KW.

Memo acts as a computerized note box, giving users a quick, convenient way of storing notes about good ideas and/or things to do. Features include listing memos by subject material, appending to previously entered memos, and output to a file. DECUS number 11-607.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Office Supply/1000

Operating System: RSTS

Keywords: • Accounting • Inventory • Order entry
• Payroll

Office Supply/1000 provides order processing, inventory control, sales analysis, accounts receivable, accounts payable, general ledger, payroll, word and list processing, and key customer system.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Andrew Yasenchak
(201) 231-9400

UNITRONIX DATA SYSTEMS, INC.
50 County Line Road
Somerville, NJ 08876

Officeman

Operating System: RSTS, RSX

Keywords: • Electronic mail • Forms management
• Text management

Distribution medium: 9-track 800/1600 bpi magnetic tape.

This integrated electronic office system includes word processing, electronic mail, forms and memoranda generation, personal and corporate filing and retrieval, calendars, check lists, appointments and resource scheduling, and other key management, professional, and secretarial applications. The system can interface with existing/planned data processing applications and with external systems such as Telex, word processors, personal computers, and so on. The system has been used in the areas of oil exploration and production, manufacturing and distribution, financial services, central government, and education.

A version of this product is available for the VAX computer.

Price: \$10,000 - \$35,000

Contact: Dr. C. V. D. Forrington
0242 42115

CORPORATE BUSINESS SYSTEMS LTD.
Jessop House, 30 Cambray Place
Cheltenham, Glos GL50 1JP
United Kingdom

Officeware®

Operating System: ULTRIX-11, UNIX* (Version 7)

Keywords: • Forms management • Graphics • Spreadsheets
• Word processing

Implemented around highly intelligent workstations, Officeware provides the writing, planning, forms management, graphics display, personal, and networking requirements of executives, knowledge workers, and production personnel. The workstation may be linked to a UNIX*-based host processor and other Officeware workstations in a local area network.

Because all Officeware components are integrated, the approach is consistent and comprehensive. Self-explanatory function keys maintain the same meaning from function to function, and the ease of switching from one facility to another further enhances the product's operational strengths.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$1200

Contact: Tony Parkhill
(415) 680-7800

CENTURY ANALYSIS, INC.
114 Center Avenue
Pacheco, CA 94553

PARS (Professional Accounts Receivable System)

Operating System: RSTS

Keywords: • Accounts receivable • Billing • Cost accounting

Distribution media: 9-track 800/1600 bpi magnetic tape, RK07, RL01, RL02.

This interactive time analysis and billing system is particularly useful in professional organizations, such as CPA firms, law firms, and so on, in which client billing is directly related to the time an individual spends performing a certain service. The system accumulates employees' hours under a certain work code, at a certain standard rate, and for a specific client/job. Thus, the system is adaptable to a variety of purposes.

ABLEPARS supports the automatic billing of up to 999 standard, recurring charges as well as invoice charges. The year-to-date billable charges and year-to-date billings reports can be compared to support decisions involving retainer fees and billing in general. ABLEPARS gives the professional the option of billing as the services are rendered or spreading the billing over several billing periods. ABLEPARS can be implemented by itself or integrated with other systems. The system has many user-controlled options and does not require a programmer for modification in a time-sharing environment. Screen-formatted entry encourages user acceptance, decreases operator training time, and ensures data integrity.

A version of this product is available for the VAX computer.

Price: \$3500 - \$5000

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

PER-FORM™ (Personalized Form Letters)

Operating System: RSTS

Keywords: • Forms management • Mailing lists
• Text management

Distribution media: 9-track 800/1600 bpi magnetic tape, RK07, RL01, RL02.

This on-line package interfaces a mailing list with a letter developed with the RSTS/E utility RUNOFF and creates a personalized letter. PER-FORM allows up to nine personalized fill-ins in the body of the letter and prints the personalized envelope.

PER-FORM does not claim to be a word processing system, since many individuals and firms find word processing impractical because of the size and frequency of their mailings. PER-FORM is an affordable, practical software complement for any company or firm with a RSTS/E-based system.

A version of this product is available for the VAX computer.

Price: \$800

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

Plessey-CALC

Operating System: RSTS, RSX, RT-11, TSX-PLUS

Keywords: • Calculation aids • Decision support
• Financial analysis • Spreadsheets

Distribution media: 9-track 800/1600 bpi magnetic tape, RL02, RX02.

The Plessey-CALC electronic worksheet provides the framework for business and scientific operations. Plessey-CALC can simplify expense reporting, tighten inventory control, improve sales reporting and forecasting, develop sales quotations, and make business projections. Plessey-CALC is fully integrated with Plessey-WP and is ideal for either the minicomputer or the microcomputer environment. Plessey-CALC is programmed in assembly language.

Price: \$500 - \$2,500

Contact: Software Department
(714) 540-9945

PLESSEY PERIPHERAL SYSTEMS

17466 Daimler Avenue
Irvine, CA 92714

Plessey-WP (Plessey Word Processor)

Operating System: RSTS, RSX, RT-11, TSX-PLUS

Keywords: • Data base management • Documentation
• Report writer • Word processing

Distribution media: 9-track 800/1600 bpi magnetic tape, RL02, RX02.

Plessey-WP is a word/list processing solution for PDP-11 and LSI-11 users. Written in MACRO-11, Plessey-WP is easy to use and takes advantage of the power and flexibility of the minicomputer. Besides the standard word processing functions, Plessey-WP provides a powerful office system that can create an input screen, generate a data base, allow the operator to enter whatever data is desired, sort the data on any field, and then list the data or merge it into any user-defined form or letter.

The word processing section consists of a full-screen editor that provides options such as cut, paste, search and replace, insert field from list processing file, on-line help menu, load all or part of another document, and so on. The output formatter supports multilevel subscripts and superscripts, centering, justification, overstrike, underlining, table protect, left or right tabs, automatic hyphenation, index, table of contents, date insertion, headers, footnotes, page numbering, word wrapping, variable-character spacing, and multilist levels. Plessey-WP also provides a document directory, a spelling dictionary, and a math package.

The list processor contains facilities for forms generation, input screen and data base creation, prompted data entry, multikey sort/select, and record search. Those functions may be performed by an operator with no programming knowledge.

Because Plessey-WP uses ASCII files, it is a very fast and efficient editor for all text and source files. Plessey-WP supports many different printers and terminals, including the VT52 and the VT100.

Plessey-WP is fully integrated with Plessey-CALC as an option.

Price: \$1500 - \$2500

Contact: Software Department
(714) 540-9945

PLESSEY PERIPHERAL SYSTEMS

17466 Daimler Avenue
Irvine, CA 92714

PS (Personal Secretary)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Mailing lists • Text management
• Word processing

Standard features of PS, a portable general-purpose multiple-window editor and word processing system, include:

- **Device independence:** PS operates with any display terminal supporting direct cursor addressing.
- **Application/user independence:** Control keys, escape sequences, and special function key maps are entirely user definable. Those definitions may be forced at startup or entered during the edit session.
- **Flexible command structure:** PS supports a simple and powerful command structure that can be tailored to the user's needs. Complex commands may be built by combining simple commands; one or more keystrokes may be defined to execute those commands. Text formatting and cut and paste functions operate on columns of text, as well as linear ranges.
- **Multiple windows:** Several files may be edited concurrently. The display may be split horizontally, vertically, or both at any point to form multiple editing windows.
- **Help facility:** PS has a general help facility that includes a tutorial, a summary for each command, and general information. The help facility may be used simultaneously while editing. Help files are normal text files and may be extended by the user.
- **Spatial correctness:** The editor presents spatially correct text. No special characters surround underline or similar overstrike sequences, yet all characters are visible and editable; control characters are easily distinguished from normal graphics characters.

A version of this product is available for the VAX computer.

Price: \$100 - \$1000

Contact: Gary Aitken
(303) 487-3342

FINISHED SOFTWARE

P.O. Box 72

Collbran, CO 81624

Q-CALL

Operating System: ULTRIX-11, UNIX* (System III, System V, Version 7)

Keywords: • Data base management • Telecommunications

Q-CALL can be used to create a data base of names, addresses, and phone numbers by alphabetical listing or category. Q-CALL also allows the user to store port configurations for various computer systems and to perform complete autodial functions, using English-language menus.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$115 - \$695

Contact: Vanessa Abbe
(818) 789-8588

QUADRATRON SYSTEMS, INC.
15760 Ventura Boulevard, Suite 1032
Encino, CA 91436

Q-DATE

Operating System: ULTRIX-11, UNIX* (System III, System V, Version 7)

Keywords: • Scheduling

Q-DATE is an electronic calendar/scheduler consisting of a monthly, a weekly, and a daily display. Q-ONE word processor-compatible function keys allow the user to easily insert, move, replace, copy, delete, and search for appointments. Calendars may be set up with private appointment passwords, and any appointment can issue an alarm.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$155 - \$995

Contact: Vanessa Abbe
(818) 789-8588

QUADRATRON SYSTEMS, INC.
15760 Ventura Boulevard, Suite 1032
Encino, CA 91436

Q-FORM

Operating System: ULTRIX-11, UNIX* (System III, System V, Version 7)

Keywords: • Data collection • Forms management • Printing

Q-FORM is an interactive screen builder and forms manager that can be used for straight forms design or as a data collection vehicle for other programs, such as data bases or spreadsheets. Fields within a form may be defined as alphabetical, numeric, or both, and limits may be placed on the number of characters. Q-FORM also has complete print capability.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$395 - \$2000

Contact: Vanessa Abbe
(818) 789-8588

QUADRATRON SYSTEMS, INC.
15760 Ventura Boulevard, Suite 1032
Encino, CA 91436

Q-MAIL

Operating System: ULTRIX-11, UNIX* (System III, System V, Version 7)

Keywords: • Electronic mail • File transfer

Q-MAIL, an electronic mail program, can be used for sending notes and documents to users on the same system or across systems automatically. Q-MAIL uses the Q-ONE word processor to create messages but easily interfaces with other types of editors as well. Features include an undelete "waste-basket" function, in/out baskets, and certified mail.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$155 - \$995

Contact: Vanessa Abbe
(818) 789-8588

QUADRATRON SYSTEMS, INC.
15760 Ventura Boulevard, Suite 1032
Encino, CA 91436

Q-MATH

Operating System: ULTRIX-11, UNIX* (System III, System V, Version 7)

Keywords: • Calculation aids • Mathematics

Q-MATH works like a standard, full-function office calculator, complete with 24 memory storage locations and "tape." Numbers and alpha characters entered on the on-screen "tape" can be saved to an easily retrievable file. Function key definitions can be displayed on the screen at any time.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$115 - \$695

Contact: Vanessa Abbe
(818) 789-8588

QUADRATRON SYSTEMS, INC.
15760 Ventura Boulevard, Suite 1032
Encino, CA 91436

Q-MENU

Operating System: ULTRIX-11, UNIX* (System III, System V, Version 7)

Keywords: • Menu handlers

Q-MENU is a multilevel menu utility program used for generating and maintaining menus. Menus can execute any resident programs on a system, regardless of the source language. Operating system commands can also be executed through Q-MENU menus, creating an English-language environment for all users of the system.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$395 - \$2000

Contact: Vanessa Abbe
(818) 789-8588

QUADRATRON SYSTEMS, INC.
15760 Ventura Boulevard, Suite 1032
Encino, CA 91436

Q-NOTE

Operating System: ULTRIX-11, UNIX* (System III, System V, Version 7)

Keywords: • Data base management • Data collection
• Text management

Q-NOTE is a writing program designed for collecting, indexing, and retrieving any type of information, using an index card editor format. Primary and secondary key fields may be defined for each on-screen index card and used to sort and retrieve information on the body of the card from the data base.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$115 - \$695

Contact: Vanessa Abbe
(818) 789-8588

QUADRATRON SYSTEMS, INC.
15760 Ventura Boulevard, Suite 1032
Encino, CA 91436

Q-OFFICE

Operating System: ULTRIX-11, UNIX* (System III, System V, Version 7)

Keywords: • Electronic mail • Forms management
• Word processing

Q-OFFICE, an integrated office automation package designed for ease of use and hardware independence, consists of eight software modules: Q-ONE, word processing; Q-MENU, menu manager; Q-DATE, calendar; Q-MAIL, electronic mail; Q-CALL, phone directory; Q-FORM, forms designer; Q-MATH, full-function calculator; and Q-NOTE, notepad/index program.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$1860 - \$9200

Contact: Vanessa Abbe
(818) 789-8588

QUADRATRON SYSTEMS, INC.
15760 Ventura Boulevard, Suite 1032
Encino, CA 91436

Q-ONE

Operating System: ULTRIX-11, UNIX* (System III, System V, Version 7)

Keywords: • File management • Printing • Text management
• Word processing

Q-ONE, a function key-oriented, menu-driven word processor, can be used to edit source code as well as to produce advanced, photocomposed documents, using virtually any terminal or printer. Records processing, complete with English-language menus for generating control files, is also included with the package.

Q-ONE allows for complete integration with other software through easy-to-use function keys and predefined glossary files. Sophisticated integration with spreadsheets and data bases can be accomplished by a few simple keystrokes. Q-ONE also lets users manipulate and maintain files as well as move around in the operating system environment without leaving a system of user-friendly menus.

* UNIX is a trademark of AT&T Bell Laboratories.

800 Office Systems

A version of this product is available for the VAX computer.

Price: \$595 - \$3000

Contact: Vanessa Abbe
(818) 789-8588

QUADRATRON SYSTEMS, INC.
15760 Ventura Boulevard, Suite 1032
Encino, CA 91436

QM (Quick-Mail)

Operating System: RT-11, TSX-PLUS

Keywords: • Electronic mail

This fully featured electronic mail and filing system using disk-resident files called mailboxes supports in-house message exchange, desk calendars, to-do lists, annotated archives, and other office automation objects. Security features offer encrypted mailbox files, password protection, and access controls. Special user aids include an integral editor, keyword mailbox searches, deferred (future) message delivery, chronological and random message access, and a full interface to local files and devices. QM uses an easy-to-learn, English-like high-level command language.

Price: \$650

Contact: Jack J. Peterson
(804) 740-9244

HORIZON DATA SYSTEMS
1901 Wildflower Terrace
Richmond, VA 23233

RCMMAIL: Mail Merge

Operating System: RSX

Keywords: • Mailing lists • Word processing

This program, written in FORTRAN-77, can print any number of copies of a document or letter. All copies are identical except for the customer's name, address, and so forth. RCMMAIL uses two input files; the first file is the document, and the second file is the mailing list.

Price: \$100 - \$180

Contact: Jan Repsch
(604) 277 02 66

RECOM ENGINEERING LTD.
6200 Sheridan Road
Richmond, BC V7E 4W7
Canada

REPGEN (Report Generator)**Operating System:** CTS-300, RSTS**Keywords:** • Programming tools • Report writer

REPGEN is a powerful tool that allows non-data processing individuals to use computer resources. Programs that take days for a skilled programmer can be generated in minutes by a novice REPGEN user. REPGEN creates reports from existing computer files, creates and maintains computer files in on-line or batch mode, and allows inquiry from file to file.

Features of REPGEN include file support, multiple file inquiries, inquiries by any field, a help feature, file updates, sorting, flexible line formatting, data inclusion/exclusion, data security, and production reports.

A version of this product is available for the VAX computer.

Price: \$2000 - \$20,000**Contact:** Tom Muskiluke
(519) 893-4200

DIGITAL BUSINESS COMPUTERS
133 Manitou Drive
Kitchener, Ontario N2C 1L4
Canada

RNI (WRDPRO-Word Processing/Text Editing)**Operating System:** RSTS, RSX, RT-11**Keywords:** • Documentation • Text management

The RNI utility adds the flexibility of IMPRS file handling to word processing. Text, format and control of pagination, titling, margin justification, and so on, are determined with simple commands. The user can prepare text using any/all data built with IMPRS.

A version of this product is available for the VAX computer.

Price: \$1500**Contact:** Elvin E. Smith or Forrest E. Weddle
(913) 782-8544

RUF CORP.
1533 E. Spruce
Olathe, KS 66061

ROSTER**Operating System:** RT-11**Keywords:** • Data base management • Mailing lists**Distribution medium:** RX01.

ROSTER maintains name and address lists and has two categories of printouts: directories that show names, addresses, telephone numbers, and so on, suitable for membership directories of organizations; and mailing labels. Multiple-person records may be associated with a given address record, which is useful for church or family-type organizations. Records may be organized into subgroups of a larger organization, such as local chapters of a nationwide organization. A person may be a member of one or more subgroups. Five codes are provided in each person's record for sorting and grouping. Menu selections may be customized for a particular organization. Several printout formats are available.

A special directory printout lists the entries that have been revised within any selected range of dates. Five types of revisions are flagged: new person, address change, other change, dropped, and reinstated. (Revision dates are saved in each record.)

Mailing labels may be printed in alphabetical or zip code order. Any subrange of zip codes may be specified.

The program is written in MACRO-11 assembly language to achieve rapid response and compact data storage. Variable-length records are used to minimize storage. Abbreviations for commonly used cities may be used to simplify entry and save storage.

Price: \$1500 - \$2000

Contact: Sam Liden

(602) 943-4341

ANALYTIC DATA CO.

548 W. State Avenue

Phoenix, AZ 85021

RSTS Smart Mailer, Version 1.0

Operating System: RSTS

Keywords: • Mailing lists • Printing

Distribution media: 9-track 800/1600 bpi magnetic tape, RL02.

This system creates and maintains mailing lists of names and addresses and generates address labels. Mailing lists can be created and maintained by adding, removing, and changing individual address entries. Any or all addresses, category definitions, or sublist definitions can be displayed on a video screen. Full addresses, category definitions, and sublist definitions can be printed or written to a disk file. Any mailing list or sublist can be printed on a variety of labels. A standard list document file can be generated for use with DIGITAL word processing systems to produce personalized letters.

Mailing lists contain packed addresses with up to 327 characters, each composed of a name, three address lines, two separate identifiers, a counter, a comment, and up to six user-defined categories. Each category can have a separate descriptive label and data type (alphanumeric, numeric, date, yes/no).

Associated sublists, which are all addresses from a mailing list that meet user-defined requirements, can be created. Each mailing list can be set up differently. For example, a list can be publicly accessible or privately owned. A list can also have different types of address identifiers and have different validations performed on address entry.

Refer to SPD #13.23.01 when requesting further information on this product from your local DIGITAL sales office.

A version of this product is available for the VAX computer.

Price: \$500 - \$750

Contact: Consult your local DIGITAL sales office (see Introduction).

SCRIPTORIUM II (Word/List Processing)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Government • Mailing lists • Word processing

Distribution media: 9-track 800 bpi magnetic tape, RK07, RL01, RL02.

This 2-module multiuser information processing system for use in any business or government environment consists of the Word/List Processing and Mailing/Response Tracking modules:

- Word/List Processing is an industry-standard system with automatic spelling check, subscripting, boldface type, underlining, footnotes, and so on. The system interfaces with several letter-quality printers. Operating instructions are accessed either on the system disk or in a printed manual.
- Mailing/Response Tracking was developed for organizations that maintain voluminous lists (for example, membership, prospects), with the need for predetermined selection criteria. The highlight of this module is the tracking of monetary contributions by members. The proven system is ideal for charitable organizations, such as churches and alumni groups, that desire year-end reporting to members for individual income tax.

The two modules, written in DIBOL, may be acquired individually or as a complete set. Dealer inquiries are encouraged.

Price: \$975 - \$1300

Contact: Robert L. Metzger, President
(504) 542-1479

DIGITAL COMPUTER SYSTEMS, INC.
31 Darrell Drive
Hammond, LA 70401

SIMS (Supplies Inventory Management System)

Operating System: RT-11, TSX-PLUS

Keywords: • Decision support • Inventory • Purchasing

This system helps manage supplies inventory by helping you determine when to obsolete items (when stocks of those items are low), assisting you in determining purchase quantities and delivery schedules in order to take advantage of volume discounts, eliminating waste (by watching who gets what), keeping the value of your inventory low (so you have more cash and less of a nonliquid asset), and evaluating department heads (by recording usage levels for each department).

SIMS has facilities for receiving items from up to 200 vendors, issuing items to up to 200 cost centers, and generating users' catalogs and warehouse listings of line items; an inventory valuation report (calculated two ways); stock check by month and year; transaction file reports by vendor number, part number, date, and end-of-month reports (also by cost center, part number, date, and end-of-month report); and monthly usage and average monthly usage reports.

SIMS also maintains files and makes interwarehouse transfers. (The data base can handle identical items stored at multiple locations with multiple prices.)

Price: \$2500

Contact: Leland T. (Tom) Smith, President
(512) 692-0953

DATA PROCESSING SERVICES, INC.
8746 Wurzbach Road, Suite 203
San Antonio, TX 78240

SofGram Electronic Communications

Operating System: IDRIS, ULTRIX-11, UNIX* (Version 7)

Keywords: • Electronic mail • Mailing lists • Menu handlers
• Telecommunications

SofGram, a total, menu-driven electronic mail package, allows a user to create, send, and receive messages over the Telex, TWX, and DDD networks. The system organizes and files your messages, gives you access to on-line data bases, and informs you when you receive

messages. SofGram maintains a data base of everyone to whom you send messages. That data base can be easily organized for mass mailings.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$500 - \$2500

Contact: David Schneider
(201) 447-3901

SOFTEST

555 Goffle Road

Ridgewood, NJ 07450

TASMIN

Operating System: CTS-300, IAS, RSTS, RSX, RT-11

Keywords: • Data dictionary • Word processing

TASMIN, a word processor that is available for VT52 or VT100-compatible terminals, supports a variety of printers. TASMIN has a comprehensive set of edit instructions, such as word wrap, screen scroll, positioning and replacement commands, justification character/word/line/paragraph modification, and merging with ASCII documents. TASMIN output can be in a letter-quality format, a draft copy, or a standard ASCII file. Edited documents can be spelling-checked against a data dictionary containing up to 200,000 words.

A version of this product is available for the VAX computer.

Price: £800 - £1800

Contact: K. E. Archer
0296 32023

S-COM COMPUTER SYSTEMS ENGINEERS LTD.

Tower House, High Street

Aylesbury, Bucks

United Kingdom

User-Mail

Operating System: RSTS

Keywords: • Electronic mail

Memory required: 128K bytes minimum.

This comprehensive easy-to-use electronic mail system facilitates the exchange of text communications and offers advanced features. Any user may create, edit, locate, forward, print, send, or receive messages. Messages may be created by using the User-Mail messages editor or may be taken from preexisting files. Messages may be sent to individuals, predefined groups, or a list of CCs. Messages may be designated with a specific receipt date. Subprocedures provide for listing valid addressees, message queueing, checking for unread

messages, and "unsending" messages. Message encryption is a standard feature that may be used optionally or set on permanently on an individual user basis. A system manager facility provides overall control.

User-Mail is written in BASIC-PLUS-2 and MACRO.

A version of this product is available for the VAX computer.

Price: \$2880

Contact: Jered Cady, Vice President, Sales and Marketing
(619) 745-6006

USERWARE INTERNATIONAL

2235 Meyers Avenue

Escondido, CA 92025

VC

Operating System: ULTRIX-11, UNIX* (System III, System V, Version 7)

Keywords: • Cost accounting • Decision support
• Financial analysis • Spreadsheets

Distribution media: magnetic tape, phone lines (uucp).

The VC spreadsheet package provides a worksheet of 1000 rows by 32,000 columns. Calculations may use the normal math operators plus a set of extended functions. All calculations are ordered, ensuring correct recalculation when any data value is changed. Data values can be fetched from external processes. Spreadsheets may be saved in either text or binary form, and multiple sheets may be merged. The package uses TERMCAP for complete terminal independence.

Extensive on-line help, an interactive tutorial to introduce the new user to VC, and a quick-reference guide are also included.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$149

Contact: William J. Ezell
(603) 883-9300

SOFTWARE INNOVATIONS, INC.

440 Amherst Street

Nashua, NH 03063

VF

Operating System: ULTRIX-11, UNIX* (System III, System V, Version 7)

Keywords: • Data entry • Forms management
• Query facilities

Distribution media: phone lines (uucp), magtape.

This forms-oriented screen management package is used under the UNIX* operating system. The package allows entry, retrieval, and modification of data organized in standard UNIX* record format. VF provides access to UNIX* for forms so that external programs may be used to validate or provide data. VF uses the TERMCAP package from the University of California at Berkeley, which permits more than 150 kinds of CRT terminals to be supported.

Data files are simple UNIX* files that can be processed by standard UNIX* commands. Form definition files, which can also be processed by VF, define record presentation on a display screen and validation criteria for data fields.

VF offers both an informative user interface for novices or casual users and a concise interface for experienced users.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$249

Contact: David R. Dick
(603) 883-9300

SOFTWARE INNOVATIONS, INC.
440 Amherst Street
Nashua, NH 03063

Who's Got the File?

Operating System: RSTS

Keywords: • Materials handling • Property management

This system, developed by Universal Library Systems and written in BASIC-PLUS, uses bar-coded labels and bar-code wands and scanners to control movement of items. Therefore, at any moment, by accessing the file on line by description or by location, you can determine the location of any item or document.

This system has widespread application; users include large document or record centers, insurance companies, governments, manufacturers, airlines, and hospitals, for patient tracking, X-ray, and patient file control.

A version of this product is available for the VAX computer.

Price: \$15,000 - \$40,000

Contact: Mel J. Endelman
(604) 926-7222

BAR CODE APPLICATIONS INC.
1609 Broadway, Suite A
Bellingham, WA 98225

Word List Processing

Operating System: CTS-300, RT-11, TSX-PLUS

Keywords: • Documentation • Text management
• Word processing

This user-friendly, simple word and list processor is relatively more efficient than many others that have basic required functions. It follows closely the capabilities of WPS-78 and can be easily installed and operated under CTS-300 and TSX-PLUS. Using TSX-PLUS, customers have as many as seven CRT units on a PDP-11/23-PLUS computer.

Price: \$995

Contact: Sam Wingate, Vice President
(813) 935-8844

AUTOMATION RESOURCES CORP.
2901 W. Busch Boulevard, Suite 309
Tampa, FL 33618

XED Word Processing System

Operating System: UNIX* (System III, System V, Version 7)

Keywords: • Menu handlers • Text management
• Word processing

The XED Word Processing System is a sophisticated general-purpose word processor designed for maximum flexibility and operator convenience. Minimum memorization of commands is required, and all commands may be accessed by either function keys or optional menus. The word processor also features a tree-structured, recursive menu processor that can access related XED office system software for form generation, data entry, document management, and user-defined programs. Complete file management utilities are provided by menu selections.

Features include multiple spooler drivers and printer daemons for either draft printers or fully proportional letter-quality printers, balance sheet mathematic functions with decimal tab editing functions, an embedded interactive spelling checker with a systemwide dictionary and user-defined local dictionaries, automatic paragraph numbering and outlining, automatic footnoting, phrase and paragraph glossaries, a floating text-variable form letter merge program, variable line spacing within a document, column block editing, second-file editing, and 12 programmable tab rulers per document.

The word processor is completely interfaced with other office systems manufactured by Computer Methods, Ltd. XED office system programs are designed and coded for UNIX* Version 7, System III, System V, and Berkeley 4.1 and 4.2 and contain a terminal description file and a printer definition and proportional spacing increment

table (both user definable) to provide maximum installation flexibility and efficiency in a multiuser environment. XED is loaded in the UNIX* multitasking operating system as a shared text file.

Computer Methods, Ltd., provides training, an operator's reference and installation manuals, as well as a command summary and a manual for the XED menu processor.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Ted Ferguson
(818) 884-2000

COMPUTER METHODS, LTD.
P.O. Box 3938
Chatsworth, CA 91313

ZCHART — Business Graphics

Operating System: RSX

Keywords: • Device drivers/handlers • Graphics
• Presentation aids

ZCHART is a versatile business graphics package. This portion of the Zeta plotter software produces multicolor line, bar, variance bar, and pie charts created in an interactive session by the user's response to simple, English-language questions. Plot description and data files are stored separately, allowing the user to run new data with an existing chart design or the same data with a different chart design.

ZCHART is a FORTRAN program that makes use of Zeta's Fundamental Plotting Subroutines. The program is designed for easy use by nonprogrammers. Attractive charts can be produced quickly and accurately by answering the simple questions asked by ZCHART.

A version of this product is available for the VAX computer.

Price: \$1500

Contact: Bill Manos, Product Manager
(415) 372-7568

NICOLET COMPUTER GRAPHICS DIVISION
P.O. Box 3020
777 Arnold Drive
Martinez, CA 94553

23018678 60308182 — 24K72

Personal Computing



Camerique

ADE/RSTS: Information Management for Office Professionals, Version 2.3

Operating System: RSTS

Keywords: • Information management • Programming tools
• Report writer • Scheduling

Distribution media: 9-track 800/1600 bpi magnetic tape, RL02, RX50.

ADE is specifically designed to help managers, administrative and clerical personnel, and other office professionals manage their own data. ADE users can create and manage information files and produce reports. An on-line tutorial makes ADE easy to learn, while extensive HELP messages and a self-prompting command structure make ADE easy to use. ADE allows users to produce and use simple applications without learning programming techniques or languages.

Refer to SPD #13.11.06 when requesting further information on this product from your local DIGITAL sales office.

A version of this product is available for the VAX computer.

Price: \$80 - \$2100

Contact: Consult your local DIGITAL sales office (see Introduction).

ADE/RSX, Version 2.2

Operating System: RSX

Keywords: • Data base management • Data entry
• Programming tools • Scheduling

PDP-11 ADE/RSX is a nonprogrammer's development software package for small applications requiring processing of character, numeric, and/or date-oriented information. This productivity tool for nontechnical personnel runs under the RSX-11M and RSX-11M-PLUS operating systems.

PDP-11 ADE/RSX allows users to create their own information base; add, change, or delete data; perform calculations on data; produce simple bar graphs; and write/print reports. The package allows personnel to automate simple applications without requiring knowledge of programming techniques or languages and to use the product's more complex facilities and functions; uses English words for commands, such as MAKE, SAVE, SORT, and has full screen-handling capabilities; prompts the user after each input and has extensive HELP messages to explain all commands or input required; allows multiple users to copy PDP-11 ADE/RSX-developed data but also allows for user protection of data; allows transfer of data to and from other applications software that uses RMS sequential files —

COBOL, BASIC-PLUS-2, and DATATRIEVE; allows transfer of data to and from list processing format files used in word processing software; and performs simple arithmetic calculations.

Refer to SPD #14.27.01 when requesting further information on this product from your local DIGITAL sales office.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Consult your local DIGITAL sales office (see Introduction).

Cardware Disk Subsystem

Operating System: RSTS, RSX, RT-11

Keywords: • File management • Microprocessor development
• Office systems • Programming tools

This solution to the problem of gaining access to data and programs written on other personal computers attaches directly to Logcraft's QCP-11, QCP-11+, UCP-11, and HCP-11 Cardware units that allow for CP/M-80, CP/M-86, and PC/MS-DOS to be executed on DIGITAL's LSI-11, PDP-11, and VAX computers. The Disk Subsystem is available as a stand-alone 5¼" single-sided single drive, a stand-alone 5¼" double-sided single drive, or a stand-alone 8" industry-standard single-sided single drive. All Cardware Disk Subsystems come with their own controllers. The Cardware unit can read or write diskettes in a variety of supported formats, such as PC-DOS, MS-DOS, and CP/M. The Cardware Disk Subsystem uses a 1-track caching technique to substantially increase performance when accessing consecutive sectors.

A version of this product is available for the VAX computer.

Price: \$995 - \$1495

Contact: Betty Pietrzyk
(603) 888-4448

LOGICRAFT, INC.
3 Graham Drive
Nashua, NH 03060

LOAD PDT

Operating System: RT-11

Keywords: • Assemblers • Communications
• Down-line loading • File transfer

The PDT11/110s is a memory-only computer. Bootstrap ROMs in the PDT allow a user to down-line load from a host. Two bootstraps are available in the PDT11/110. This program is the host loader protocol to down-line load the PDT, using what is known as the TERMINAL

BOOT. Satellite images can be assembled and linked on an RT-11 host and then loaded to the PDT by running this program, with the PDT acting as console. DECUS number 11-390.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

PCworks

Operating System: ULTRIX-11, UNIX* (Version 7)

Keywords: • Communications • File transfer • Networking

PCworks is a "desk top networking application that links IBM Personal Computers (or PC-compatible computers) to UNIX* computers. The PCworks package allows a PC to communicate with a variety of multiuser UNIX* systems to transfer data files, mail messages, or print reports. With the PCworks, the UNIX* system acts as a network manager, allowing PCs connected to the UNIX* system to communicate as well as to use the more powerful hardware and software on the UNIX* system.

PCworks consists of five software modules. The PCworks Menu System, Terminal Emulator, Configuration Manager, and the Mail/File Network Interface run on the PC. The PCworks Network Server runs on the UNIX* system. The PCs and the UNIX* system are connected, either directly or through modems, by way of RS232 ASYNCH communications lines.

The PCworks front end to the standard UNIX* mail system allows users to read, create, and send letters and to print or save correspondence on the PC. The PCworks file-transfer capability allows transfers between the PC and UNIX,* with optional conversion between UNIX* and MS/DOS file formats and use of the UNIX* system printer for PC-created reports. Users can predefine PCworks "keywords to simplify the use of complex communication variables.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$495

Contact: Ray Norbert
(213) 598-7746

TOUCHSTONE SOFTWARE CORP.
909 Electric Avenue, Suite 207
Seal Beach, CA 90740

poly-XFR™ CP/M® Communications

Operating System: RSTS, RSX, RT-11

Keywords: • Data conversion • Diagnostics
• File management • File transfer

Distribution media: 9-track 800/1600 bpi magnetic tape, RL01, RL02, RX01, RX18, RX50, TU58 DECtape II cartridge.

This package, developed by Polygon Associates, Inc., features binary/ASCII file transfers between DIGITAL's VT180 CPM local system or a PC200 DECmate II CP/M local system and a host system. Host systems include CP/M-86/80 or MS™-DOS running poly-COM, DECmate II CP/M, VT180 CP/M, RT-11, RSTS/E, RSX-11M, RSX-11M-PLUS, and VAX/VMS systems.

Time-out and error-detection features ensure the integrity of the transferred data. The software runs up to 9600 bps in a local environment and uses full-duplex modems for remote data transfer.

The poly-XFR CPM Communications package can transfer, store, and retrieve files; use host peripherals; and act as a terminal to the host. With either system, the user can develop programs, transfer data between systems, or toggle the local printer on or off.

The CP/M Communications package includes software that runs on the host and on the local system, respectively. The local software is composed of a file-transfer program and a terminal emulator. The transfer program sends and receives files from the host. The terminal emulator converts the local VT180 or DECmate II to a terminal, giving the user access to all the resources of the host computer. The host software interprets and executes the local program's file-transfer requests. The poly-XFR CPM Communications command language is executed at the personal computer.

The package serves environments that use distributed development and/or personal computing systems and that need to share data, programs, or peripherals.

DIGITAL distributes this software under license from Polygon Associates, Inc., St. Louis, MO.

Refer to SPD #A0.50.04 when requesting further information on this product from your local DIGITAL sales office.

poly-XFR™ is a trademark of Polygon Associates, Inc. CP/M® is a registered trademark of Digital Research, Inc. MS™-DOS is a trademark of Microsoft Corporation.

A version of this product is available for the VAX computer.

Price: \$600 - \$850

Contact: Consult your local DIGITAL sales office (see Introduction).

The first part of the paper is devoted to a general discussion of the problem of the origin of life. It is shown that the problem is not only a scientific one, but also a philosophical one. The scientific aspect of the problem is the question of the origin of the first living organisms. The philosophical aspect is the question of the origin of the first conscious beings.

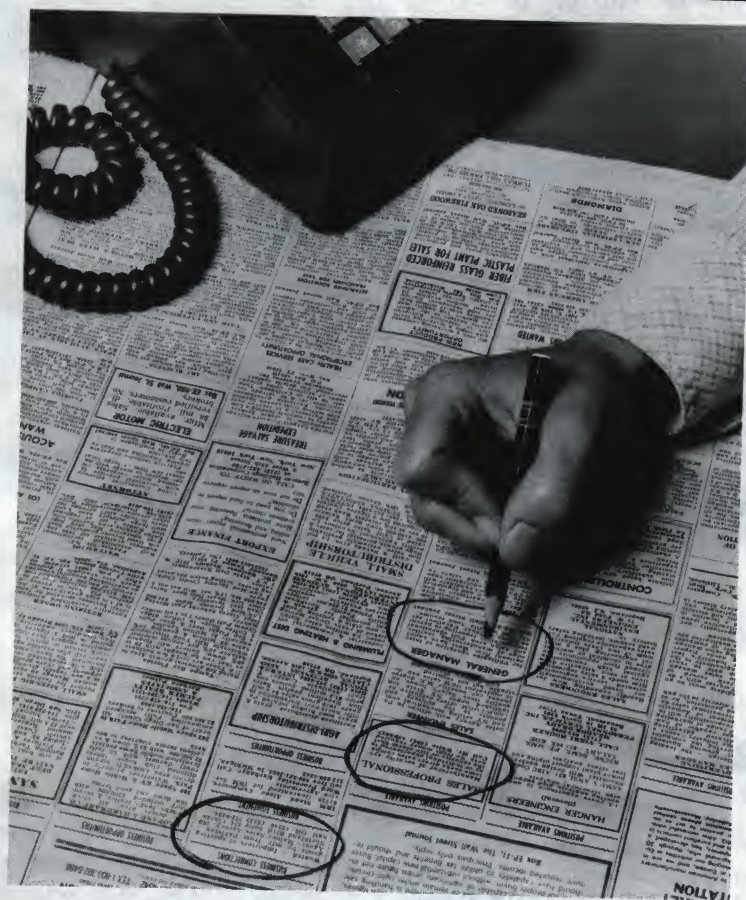
The second part of the paper is devoted to a discussion of the scientific aspect of the problem. It is shown that the scientific aspect of the problem is the question of the origin of the first living organisms. It is shown that the scientific aspect of the problem is the question of the origin of the first living organisms.

The third part of the paper is devoted to a discussion of the philosophical aspect of the problem. It is shown that the philosophical aspect of the problem is the question of the origin of the first conscious beings. It is shown that the philosophical aspect of the problem is the question of the origin of the first conscious beings.

The fourth part of the paper is devoted to a discussion of the scientific aspect of the problem. It is shown that the scientific aspect of the problem is the question of the origin of the first living organisms. It is shown that the scientific aspect of the problem is the question of the origin of the first living organisms.

The fifth part of the paper is devoted to a discussion of the philosophical aspect of the problem. It is shown that the philosophical aspect of the problem is the question of the origin of the first conscious beings. It is shown that the philosophical aspect of the problem is the question of the origin of the first conscious beings.

Personnel



Cambridge

APPGEN Payroll

Operating System: UNIX* (Version 7), XENIX

Keywords: • Employment • Payroll • Report writer • Taxes

This system for calculating and printing payroll checks features complete payroll time entry, editing, and updating abilities for salaried, hourly, and contract personnel. The system maintains data-input accuracy by allowing transaction entry screens to be edited and corrected before posting. Plus, transaction entry screens match the formats of the original documents.

The system allows different pay periods for salaried and hourly employees. Plus, pay periods may range from daily to yearly.

Payroll includes virtually unlimited deductions/earning codes, including advance earned-income credit and temporary ad hoc deductions and earnings. The number of deductions for each employee is unlimited too. Deductions may be computed by percent or fixed-dollar amounts, with not-to-exceed limits, for any pay-period frequency. Flexible table-driven tax calculations handle virtually any computation/deduction method. The system also includes summarized data for local, state, and federal government reporting, including quarterly reports and W-2s.

The system accommodates manually written checks, multiple G/L distributions for each employee, and job cost distributions. The system also provides payroll distribution, payroll history, employee history and review, and overtime sick-pay reports. Audit trails include posting programs that automatically produce journals.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$600

Contact: Steve Thomas, Vice President, Marketing
(713) 974-2298 or (800) 231-0062

SOFTWARE EXPRESS

2925 Briarpark Boulevard, 7th Floor
Houston, TX 77042

APS (Applicant Placement System)

Operating System: CTS-300, RSTS, RT-11, TSX-PLUS

Keywords: • Data base management • Employment

This time-sharing system helps employment agencies match applicants with jobs. APS interfaces with word processing systems for the preparation of resumes and mailing lists. APS maintains a data base of applicants, jobs, and clients and handles mass mailing for general-interest categories. The system provides free-form keyword searches

and special handling for location preference. The system also enables multiple agencies with special programs to transfer data from one system to another.

A version of this product is available for the VAX computer.

Price: \$500 - \$5000

Contact: Ed Kelleher, President
(803) 796-8858

MACRO, INC.
121 Professional Avenue
West Columbia, SC 29169

ARCHON: PAY

Operating System: RSTS

Keywords: • Education • Payroll

The ARCHON: PAY (payroll) and personnel system modules are integrated with a data management system to automate many phases of a payroll operation for educational institutions and other nonprofit organizations. The system supports on-line payroll entry and retrieval, employee payroll data records organized by department or location, and generation of special reports. Variable pay periods and assorted user-defined deductions are built-in features. An interface exists to the ARCHON: FRS Financial Reporting System. The system produces, in addition to control reports, the checks and registers necessary for payroll records, prelists (transmittal sheets) for time-card and salary, and exception control. Other features are the management and personnel reporting facilities of the system.

A version of this product is available for the VAX computer.

Price: \$7650

Contact: Ila Sunshine
(203) 728-6777

QUODATA CORP.
266 Pearl Street
Hartford, CT 06103

CORTEX HRM (Human Resource Management System)

Operating System: RSX

Keywords: • Information management • Office systems
• Query facilities • Report writer

This on-line real-time information management system is designed to make personnel departments more effective. Invoking the report-writing function, a user may generate 40 standard reports, which are available on demand through a screen or high-speed printer. A powerful query function provides customized data and ad hoc reports for

complete analysis of a company's resources. Six modules comprise the system: Administrative, Placement-Application, Benefits and Pensions, Government Compliance, Statistical Analysis, and Payroll Interface.

A version of this product is available for the VAX computer.

Price: \$5000 - \$19,000/module

Contact: Lynn Hearl

(617) 237-2304

CORTEX CORP.

55 William Street

Wellesley, MA 02181

Employment Agency

Operating System: RSTS

Keywords: • Accounting • Employment
• Project management • Word processing

This package generates payroll and invoices and handles employee scheduling, accounts receivable, accounts payable, general ledger, checks and balances, client account activity, resume searching, project tracking, complete file maintenance, and word and list processing. The package can be departmentalized and provides management summary reports and labor distribution analysis.

A version of this product is available for the VAX computer.

Price: \$2000 - \$20,000

Contact: Andrew Yasenchak

(201) 231-9400

UNITRONIX DATA SYSTEMS, INC.

50 County Line Road

Somerville, NJ 08876

MATCHUP: Assignment

Operating System: RSTS, RSX, RT-11

Keywords: • Employment • Pharmaceutical • Simulation
• Statistics

MATCHUP matches or assigns prospective job applicants' skills, years of experience, education, and so on to available jobs in a company, preferably a larger one. Matching is accomplished by using numerical ratings applied to attributes of the applicant. The output is a message of excellent, good, possible, or no match at all, accompanied by a numerical score corresponding to the total matches between all attributes of an employee's personnel profile and the requirements of the available position. Again, numerical weights can be attached to any of the applicant's characteristics such as highest degree obtained, number of years of experience in commercial data

processing or defense, minority group member, war veteran, number of years of real-time software development, or speaks French or German.

The price is a 1-time license fee.

A version of this product is available for the VAX computer.

Price: \$5000

Contact: Jon Prescott

(619) 247-7219

J & S ASSOCIATES

13407 Quapaw Road

Apple Valley, CA 92307

PAYROL-IMPRS Payroll P/R System

Operating System: RSTS, RSX, RT-11

Keywords: • Payroll • Security • Taxes

PAYROL-IMPRS is a total payroll system that records pay period hours, pay, and taxes; allows for weekly, biweekly, semimonthly, and monthly pay frequencies and for hourly, salary, and salary with overtime pay types; provides for calculation of federal, state, and local taxes, tax exceptions, and up to 18 authorized deductions; provides for overrides at entry time of rate, salary, and department; has menu-driven entry and maintenance systems; provides for security passwords to control access, complete reporting and audit trail, and automatic master file backups; and performs extensive on-line editing and easy interactive reporting of all files.

A version of this product is available for the VAX computer.

Price: \$3000

Contact: Elvin E. Smith or Forrest E. Weddle

(913) 782-8544

RUF CORP.

1533 E. Spruce

Olathe, KS 66061

Payroll

Operating System: RSTS

Keywords: • Banking • Employment • Payroll • Taxes

The multiple-user Payroll system handles daily, weekly, biweekly, semimonthly, and monthly pay frequencies and exempt or nonexempt employees; 9 kinds of pay; any combination of tax-withholding profiles; 14 user-defined deduction codes; 4 types of accruals, as well as federal types of accruals; employee earnings records; complete month-to-date, quarter-to-date, and year-to-date history for each employee; multiple banks; and manually written or precalculated checks for a single employee.

822 Personnel

The reporting features are a report writer facility, time sheet, payroll register, earnings report, tax summaries, W-2s, 941s, checks, and a deduction report.

A version of this product is available for the VAX computer.

Price: \$3000 - \$6000

Contact: Linda Wingfield, Software Support Manager
(919) 766-0571

RESOURCE SYSTEMS CORP.

P.O. Box 1546

Clemmons, NC 27012

Payroll

Operating System: RSTS

Keywords: • Payroll

This is a complete payroll package.

A version of this product is available for the VAX computer.

Price: \$3500

Contact: Andrew Yasenchak
(201) 231-9400

UNITRONIX DATA SYSTEMS, INC.

50 County Line Road

Somerville, NJ 08876

Payroll (Canadian)

Operating System: RSTS

Keywords: • Accounting • Payroll • Taxes

Distribution medium: 9-track magnetic tape.

This easy-to-operate system features interactive entry of personnel information, with field-to-field cross-edits; auto pay, with override for salaried employees; a 1-step procedure for validation, process payroll, and data base restore in case of errors; and year-end rollover, with last year's year-to-date data maintained on the current data base.

Earnings and deduction names, taxes, default earnings and deductions, and other parameters are table driven. Tables can be updated by the user on a security-level basis. This system has comprehensive user and operator documentation and is designed for operation by clerical-level personnel.

A version of this product is available for the VAX computer.

Price: \$14,000

Contact: Robert Brown
(902) 429-3175

DYMAXION RESEARCH LTD.
Box 1053, Armdale Station
Halifax, Nova Scotia B3L 4L5
Canada

Payroll System

Operating System: CTS-300, RSX, RT-11

Keywords: • Payroll • Report writer • Service industries
• Taxes

This system provides operational efficiency and reliability with maximum system flexibility and responsiveness. The system requires minimum maintenance and program intervention but still provides the total payroll function from check writing to form printing to report generating.

The system provides an employee master file; a restaurant payroll for tips and meals; hourly and salary payrolls, which can be run separately; weekly, biweekly, semimonthly, and monthly payrolls; the automatic calculation of gross pay, withholding, and deductions; entry of payroll attendance transactions; payroll attendance list printing; payroll and payroll check registers; computer-printed checks; an attendance distribution report; computer-printed 941-A and W-2 forms; departmental breakdown for labor analysis; multi-state capability; and payroll tax deposit.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Bob Sprowls
(904) 434-2685

DIGITAL SYSTEMS, A DIV. OF UCCEL
114 E. Gregory Street
Pensacola, FL 32501

Permanent Placement Personnel System

Operating System: RSTS

Keywords: • Employment • Information management
• Recruiting

This complete information management system for placement, search, and recruiting firms is designed for on-line single- or multi-terminal interactive use with PDP-11s and can handle from 1 to 60 terminals. Originally developed in house for a professional employment firm, the software package has since been modified to satisfy office support (clerical) placement firms, search firms, and now corporate personnel departments.

The software features maintenance and retrieval of candidates, companies, and job openings. A user can record and update interview activity in all three files. Other features include variable information on candidates and companies, unlimited record sizes, management reporting, and phonetic search capabilities. Electronic mail, referral activity, and interface to word processing are optional modules.

The software incorporates the standard operational aspects and terminology of a placement agency or search firm. Users include both single-office and multilocation agencies. The system operates in a RSTS/E environment and is ideally suited for multiple terminals and remote location tie-ins. The system was written around a data base management system and uses many features of a VT100-series terminal, including split screens, reverse video, and alternate wide or narrow screens.

Price: \$13,000 - \$20,000

Contact: Murray Stinson or Cindi Coates
(713) 496-0771

SPARTIN SYSTEMS
14925-A Memorial Drive
Houston, TX 77079

Personnel Record System

Operating System: RSTS

Keywords: • Mailing lists • Payroll

Memory required: 256KB and 20MB of disk storage. Distribution medium: 9-track 800/1600 bpi magnetic tape.

This system, for companies using an outside payroll service, features a personnel record report (8½" x 11") showing items, such as hire date, seniority, birthdate, vacations earned/taken/owed, and sick leave history. The system keeps track of the employees' dependents and workers' compensation code, prints mailing labels, and calculates the net pay for any payroll check to be prepared manually in advance of the normal payday.

Our software warranty provides users with comprehensive support and training. Each turnkey system purchased includes up to four hours of field training for each package, at no charge, during the first 30 days following installation. A user manual is provided with each software package.

The software, written in BASIC-PLUS, runs under RSTS/E on DIGITAL PDP-11 and compatible minicomputers. End-user, OEM, and software reseller licensing agreements are available.

Price: \$1495

Contact: Warren C. Nagler
(714) 997-8927
JADTEC, INC.
546 West Katella Avenue
Orange, CA 92667

Personnel Searcher

Operating System: RSTS

Keywords: • Employment

Distribution medium: 5¼" diskette.

This package meets the needs of employment agencies, temporary placement agencies, and in-house personnel departments. Once the initial data base is established, data entry provides a large file of applicants and job orders. A flexible search function allows the comparison of both files in order to generate successful job matches. System features include a built-in interface with the NMI Complete Accounting Package and with most standard word processors.

Price: \$1495

Contact: Terri Akers
(215) 822-2407
NORTON-MURPHY INTERNATIONAL, INC.
176 Chalfont Road
Chalfont, PA 18914

Placement Agency: Applicant Retrieval and Order/Billing Systems

Operating System: CTS-300, RT-11

Keywords: • Billing • Employment • Payroll

This Applicant Retrieval system records data on each applicant who has been interviewed. With this data base in place, the retrieval system selects a range of applicants based on specific selection criteria — for example, permanent or temporary, job category, skill code, and industry background. The system provides both a summary and a detailed list of the applicants retrieved.

The Order/Billing system allows for orders of permanent and temporary applicants. Permanent orders are billed as a flat fee or a percentage; temporary orders are billed on time spent on site. All temporary billings are fed into the payroll system for weekly checks.

All billings interface automatically with the Accounts Receivable, Sales Analysis, and General Ledger systems.

A version of this product is available for the VAX computer.

Price: \$5000 - \$10,000

Contact: Nigel Harris
(613) 829-8888

HARRIS COMPUTER SYSTEMS
16 Credit Union Way
Nepean, Ontario K2H 8R6
Canada

P/R (Payroll), MCBA, Inc.

Operating System: CTS-300, RSTS, RT-11

Keywords: • Payroll • Report writer

This payroll package serves hourly and salaried employees. The user can maintain the employee master file and can enter and edit payroll attendance transactions; general ledger account information by department; federal and state tax percents, limits, and withholding tax tables; and payroll adjustment transactions. The user can also perform check reconciliation, using the same files as A/P check reconciliation. Payroll, including gross wages, taxes, and deductions, can also be calculated. The Payroll package interfaces to two other MCBA packages; allows full printer spooling; supports seven terminal types, including the VT100 in both ANSI and VT52 modes; provides security; and supports multiple companies.

The Payroll package also prints the employee file printout; the alphabetical employee list; alphabetical employee mailing labels; employee time card labels; the payroll attendance edit list; payroll checks with choice of formats; payroll distribution summary; payroll check, savings bond, and union deduction registers; manual payroll transaction register; payroll to G/L distribution and payroll history reports; overtime, sick pay, job class/equal opportunity, state taxable wages, and city withholding tax reports; quarterly 941A forms; and yearly W-2 and 1099 forms.

A version of this product is available for the VAX computer.

Price: \$2000 - \$3000

Contact: Sales Representative
(818) 957-2900

MCBA, INC.
2441 Honolulu Avenue
Montrose, CA 91020

PST (Payroll + State Tax)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Government • Payroll • Taxes

With Plus State Tax, the end user may have employees working in multiple states during the same pay period and still generate only one payroll check for each employee, with correct deductions for each state withholding tax. This system prints one federal W-2 totaling the employee's earnings from all states for the year and also prints the appropriate number of state W-2 forms showing the employee's earnings from each state.

Plus State Tax will simultaneously support all 50 states, although at present only 40 states have a withholding tax. This multistate support is interfaced with the DIBS-11 Payroll Package and is completely transparent to the user. A 2-character printed state code before the deducted amount will appear on each employee's payroll check, indicating the states that withheld taxes. An Edit Report may be printed, showing the amount deducted from each employee's earnings, subtotaled by state.

A version of this product is available for the VAX computer.

Price: \$1500 - \$2000

Contact: Nick Culbreth
(404) 256-3067

AMERICAN DIGITAL PRODUCTS CORP.
5775-B Glenridge Drive N.E., Suite 320
Atlanta, GA 30328

RealWorld Software: Payroll

Operating System: UNIX* (System III, System V, Version 7)

Keywords: • Employment • Payroll

This system, developed by RealWorld, offers employee file maintenance and lists; handles both hourly and salary employees on daily, weekly, semimonthly, monthly, and quarterly pay frequencies, as well as special deductions and earnings; and prints the payroll worksheet to assist in gathering payroll input data, the register and the deductions register, and payroll checks and the check register. The system allows interactive entry and editing of attendance input data with edit list and register and automatically calculates the payroll.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$850 - \$1250

Contact: Vern Pang

(714) 978-1212

INFORMATION MANAGEMENT ASSOCIATES, INC.
1437 W. Palmyra
Orange, CA 92668

TBS Time Accounting for Professionals

Operating System: RSTS, RSX, RT-11, TSX-PLUS

Keywords: • Billing • Report writer

The TBS Time Accounting System, designed for a wide variety of professional-service organizations, has great flexibility in the type and manner of transaction entry. A large number of management-level reports are available for analysis of productivity and revenue sources. An interface to the TBS General Ledger system is optional.

A version of this product is available for the VAX computer.

Price: \$995 - \$2500

Contact: Chuck Tebbetts
(818) 242-7981

THETA BUSINESS SYSTEMS
1110 Sonora Avenue, Suite 106
Glendale, CA 91201

Temporary Services Personnel System

Operating System: RSTS

Keywords: • Accounting • Information management • Payroll
• Service industries

This complete information management system for temporary service firms is designed for on-line single- or multiterminal interactive use with PDP-11s and can handle from 1 to 60 terminals. Including payroll, billing, and accounts receivable, the package offers total employee management through the search, dispatching, and sales-reporting features. Reporting covers employee availability, work order status, sales history, aging balances, and special requests.

Searches can be done by skills, locations, availability, status, name (phonetic match), and other criteria. Optional modules include electronic mail and interface to word processing and accounting. Diverse jobs such as timesheet entry, payroll, and dispatching may be performed simultaneously, as the software operates in a RSTS/E time-sharing environment.

In summary, the package provides the temporary service firm with an information storage and retrieval system, an accounting and payroll system, a management information and control system, and an administrative system — all in one.

Clients range from single-terminal 1-office temporary services that are independents to national chains of temporary services.

Price: \$16,000 - \$25,000

Contact: Cindi Coates or Murray Stinson
(713) 496-0771

SPARTIN SYSTEMS
14925-A Memorial Drive
Houston, TX 77079

TEMPUS-11 Time and Attendance System

Operating System: RSX

Keywords: • Data collection • Forms management
• Project management • Scheduling

Distribution media: magnetic tape, RL02.

TEMPUS-11 is a hardware and software system that helps manage human resources by continuously monitoring individual personnel schedules with recorded attendance. The system uses a time-clock terminal, TMP-21/TK, produced by ATS, to record arrival and departure of personnel at the workplace. Up to 99 work schedules can be defined to cover unique work schedules. Rotating shifts, flexitime, part-time, or job-sharing time structures are all accommodated. The menu-driven displays guide personnel managers in use of the system. A real-time attendance status display is immediately available with a single keystroke. Individual attendance records are continuously updated. Management summaries by cost center or department are readily compiled. Overtime can be automatically approved within specified parameters or held for individual review. Error conditions are listed for resolution by the supervisor. Monthly reports reflecting hours scheduled versus hours worked, sickness, absence, attendance by day, overtime, and master file changes are all available to provide personnel managers with information about the human resources, the most important asset in any organization. The system can interface to large mainframes to provide input to payroll and accounting systems or can generate floppy disks or magnetic tapes for information transfer. The time attendance terminal is equipped with CMOS memory and battery backup to ensure continuous performance and capture of data.

A version of this product is available for the VAX computer.

Price: \$4600 - \$19,450

Contact: Robert L. Hirtle, Office Manager
(904) 433-7578

ATS DATA PROCESSING, INC.
1101 North 9th Avenue
Pensacola, FL 32501

TIMANA-IMPRS Time-Analysis System

Operating System: RSTS, RSX, RT-11

Keywords: • Accounting • Billing • File management

TIMANA-IMPRS handles manpower reporting and invoicing, client analysis reports, and journals. The system provides a complete record of all employee hours, automatically calculates for chargeable hours, allows separate rates for each employee for different customers, has menu-driven file maintenance, performs extensive on-line editing, does not allow duplicates to be entered, allows instant access to employee records, allows separate rates for each employee for special jobs, provides automatic master file backups, allows for constant monthly charges to be established, prints client invoices and labels, handles manual invoices, has proof reporting available, and allows all master files to be interactively reported.

A version of this product is available for the VAX computer.

Price: \$3000

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544

RUF CORP.

1533 E. Spruce

Olathe, KS 66061

Real Estate



Robert Pyle

AESOP (Aggregate Exception System for Mortgage Portfolios)

Operating System: RSTS

Keywords: • Banking • Financial analysis
• Property management • Report writer

Distribution media: RL02, RK07.

AESOP serves the master servicer or trustee of a portfolio of single-family mortgages. The system reports to the investor or the source of mortgage funds by reconciling the direct servicer's reports and remittances. The system is designed for both commercial application and public housing agencies.

On a monthly basis, the only input to the system consists of exceptions to the normal monthly payment, such as liquidations, curtailments, prepayments, delinquencies; or principal adjustments. If the mortgagor makes the normal scheduled payment, no input is required. User-friendly screens and prompts guide the user in operating the system.

Reconciling and balancing are done before individual mortgage records are posted. Therefore, discrepancies are resolved before files are updated.

The system produces monthly reconciliation reports and forecasts for the next month, based on the activities of the month just closed. A mortgage trial balance is generated, as is a forecast trial balance.

The user decides on the elements to be stored for each mortgage. An integral report writer enables the user to retrieve any stored data and to format ad hoc reports.

A version of this product is available for the VAX computer.

Price: \$35,000

Contact: Ralph S. Trigg, Jr.
(505) 842-1247

AUTOMATED OFFICE SYSTEMS, INC.
P.O. Box 100
Albuquerque, NM 87103

Apartment Management System

Operating System: RSTS

Keywords: • Property management

This system provides full and accurate management of apartment complexes. It allows the entering, updating, and listing of property, tenant, and apartment data. The program posts accounts receivable and payment and facilitates the distribution of delinquency letters.

Price: \$3000 – \$5000

Contact: Robert Davidson
(215) 836-1406

TIME SHARING CONSULTANTS OF PENNSYLVANIA,
INC.

6107 West Mill Road
Flourtown, PA 19031

Commercial Property Management

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounting • Accounts receivable • Billing
• Property management

This system provides instant recall of current and historical data for video display or printing and gives the commercial property manager complete and effective financial control. Lease, rent, tax refund, accounts receivable, and sales reports are available and can be displayed or printed for faster, paper-free review. An interrelationship of data files storing information on properties, tenants, leases, billings, and sales forms the core of this application. The master control record permits a user to tailor this system to take advantage of specific features. General ledger interface, percent rent calculation, invoice history, tax calculation, tax escalation, and common area calculations can be disabled if they are not required. The Commercial Property Management system features property information, tenant and lease information, lease abstract details, invoicing, accrued charges, tax escalation, common-area distribution, adjustments, and deposits and prepaid rent.

A version of this product is available for the VAX computer.

Price: \$3000 – \$15,000

Contact: Tom Muskiluke
(519) 893-4200

DIGITAL BUSINESS COMPUTERS

133 Manitou Drive

Kitchener, Ontario N2C 1L4

Canada

DPS/11 Analysis and Finance Programs

Operating System: RSTS, RT-11

Keywords: • Banking • Decision support • Financial analysis
• Property management

This comprehensive menu-driven real estate applications library of investment analysis, tax analysis, and loan repayment and other related programs serves the commercial/investment real estate broker, appraiser, accountant, attorney, developer, and investment analyst. This software is based on NRE's industry-proven investment

analysis programming skill. Functions include a Constant P&I Payment Loan Schedule, Constant Principal Payment Loan Schedule, Graduated (by %) P&I Payment Loan Schedule, Graduated (by \$) P&I Payment Loan Schedule, Graduated (by %) Interest Rate Loan Schedule, Internal Rate of Return and Financial Management Rate of Return Computations, ACRS Cost Recovery Schedule, Sale Proceeds After Taxes, Individual Tax Analysis, Installment Sale Year Analysis, Carry-Back Installment Loan Analysis, Carry-Back Wrap-around Loan Analysis, Funded Installment Loan Analysis, Funded Wraparound Loan Analysis, Investment Base and Acquisition Basis Computations, Comparative Tax Analysis, Federal Tax Schedules, Income Property Factors, Development Site Factors, Investment Value Computations, Own/Lease Analyst, Transaction Structuring, Transaction Basis Adjustment, Acquisition Analysis, Sale of Personal Residence, and Net Present Value Computations programs.

Documentation includes an installation and instruction manual with detailed program descriptions, sample program runs, and sample printouts.

This product is supported nationally (U.S.A.). The license fee includes the first year of software maintenance, updates, enhancements, and support.

Running this product requires the DPS/99 Systems Interface software module (\$695 - \$995).

A version of this product is available for the VAX computer.

Price: \$1895 - \$2295

Contact: James L. Lawson, Senior Analyst
(305) 647-6739

NATIONAL REAL ESTATE EXCHANGE, INC.
NRE Systems Division, P.O. Box 475
Maitland, FL 32751

DPS/12 SUPRCSH Investment Cash Flow Analysis

Operating System: RSTS, RT-11

Keywords: • Decision support • Financial analysis
• Investments • Taxes

This sophisticated menu-driven, screen-documented investment cash-flow analysis software package was developed by commercial/investment real estate professionals. Based on projected pretax income, SUPRCSH computes after-tax cash flows and yields for holding periods up to 30 years, up to 20 loans, separately definable incomes and expenses, and up to 20 depreciation/cost recovery items. Tax computations reflect IRS tax rate schedules and are based on the investor's reporting method and taxable income.

This product includes programs that allow graphing of any two (of more than 125) categories of analysis results for comparison and displays the graphs on video screen and/or hard copy. What-if situations can be analyzed through a versatile editing feature that enables the user to change any input item(s) and store input for later analysis. Results are displayed and printed in one of three user-selected formats and may be printed in 80- or 132-column-wide reports.

Documentation includes an installation and instruction manual with detailed program descriptions, sample program runs, and sample printouts.

This product is supported nationally (U.S.A.). The license fee includes the first year of software maintenance, updates, enhancements, and support.

Running this product requires the DPS/99 Systems Interface software module (\$695 - \$995).

A version of this product is available for the VAX computer.

Price: \$1895 - \$2295

Contact: James L. Lawson, Senior Analyst
(305) 647-6739

NATIONAL REAL ESTATE EXCHANGE, INC.
NRE Systems Division, P.O. Box 475
Maitland, FL 32751

DPS/21 Real Estate Property Management

Operating System: RT-11

Keywords: • Accounting • Decision support
• Property management

The DPS/21 module enables the real estate property management company to automate virtually all of its property management record-keeping and reporting needs. This complete, self-contained product can handle residential, office, and/or commercial rental units and accounts receivable, accounts payable, and general ledger. Data is maintained on the property, its ownership, and on each rental unit. Complete tracking of cash receipts and sales (rent, taxes, miscellaneous charges) is maintained on each unit. Statements can be generated on demand. Historical data is also maintained on each unit, and numerous statistical and historical reports are available on request.

Documentation includes a complete step-by-step installation and instruction manual with detailed program descriptions, sample program runs, and sample printouts.

This product is supported nationally (U.S.A.). The license fee includes the first year of software maintenance, updates, and support.

This product is available without the DPS/33 Accounts Payable Module but requires the use of the DPS/99 Systems Interface module (\$695).

Price: \$3695 - \$4995

Contact: James L. Lawson, Senior Analyst
(305) 647-6739

NATIONAL REAL ESTATE EXCHANGE, INC.
NRE Systems Division, P.O. Box 475
Maitland, FL 32751

DWC Land Parcel Data Base System

Operating System: RSTS

Keywords: • Data base management • Mapping

Originally designed for a governmental/engineering mapping project, this sophisticated system includes tape-loading programs, data entry functions, on-line changes and inquiries, a flexible report generator, and a property index card program. The data base can be accessed by account number or map number, owner's name, and owner's tax ID number. Pertinent data includes township number, area and quarter sections, parcel number, multiple deed and plat book entries, lot dimensions, acreage, and various district numbers and codes (tax, city codes, addition codes, and so on). Lot and block numbers, subdivision name, township, section and range, parcel address, owner name and address, and a variable-length field for a complete land description are also included. Both split and consolidated properties can be tracked.

A version of this product is available for the VAX computer.

Price: \$5000 - \$10,000

Contact: Barbara Dotson or Cheryl Hammelman
(606) 253-3183

DWC COMPUTER SOLUTIONS, INC.
1642 N. Broadway
Lexington, KY 40505

ECO Freedom System

Operating System: Business Forth

Keywords: • Banking • Credit • Data base management

This automated loan-processing system can be used on both microcomputers and mainframes. Single-station stand-alone systems serve small mortgage bankers, and multistation mainframe systems serve large clients. The system allows for local and remote interrogation and operation. Program changes and enhancements may be made either locally or remotely.

The program language is Freedom, which is our version of Business Forth. The language is easy to use and to understand, since it uses English words, and it interfaces easily with other languages.

This system is a complete operating system designed exclusively for the lending industry. The system is not specifically tied to hardware; thus, your choice of hardware is not restricted by the software package.

The ECO Freedom System provides loan processing, shipping, tracking, and extensive management reporting, in addition to document preparation for single-family home loans, second trust deed loans, and construction loans.

Price: \$10,000

Contact: Jeff Strickland
(619) 741-5626

THE ECO COMPANIES

P.O. Box 217

San Marcos, CA 92069

ILSA (Installment Loan Service Accounting)

Operating System: RSTS, RSX

Keywords: • Accounting • Banking • Property management

This easy-to-use system services installment collection accounts pertaining to notes and trust deeds and land sales contracts. The program is designed for installment collection, the collections department in financial institutions, escrow and title companies, mortgage companies, and large real estate firms and developers.

ILSA features on-line display of current account status information, payment history, and disbursement records; amortization of payments with monthly, quarterly, semiannual, and annual payment schedules; disbursements to payees, containing complete payment amortization records; and an impound account capability and the handling of underlying obligations.

ILSA produces daily accounting reports, payment coupons, year-end statements, beneficiary and demand statements, late-notice letters, and other supplemental reports. Expansion is limited only by the hardware configuration. No limitations are imposed by the software as to the maximum number of account records, payees for an account, or retention of historical records.

A version of this product is available for the VAX computer.

Price: \$5000 - \$28,000

Contact: Richard Brunet
(702) 786-2911

DATA CONCEPTS INTERNATIONAL, INC.
P.O. Box 20502
Reno, NV 89515

Mortgage Loan Closing Software

Operating System: RSTS

Keywords: • Banking

This software processes, tracks, and prepares closing documents, including checks and drafts, for real estate loan-closing institutions.

Price: \$5500 - \$80,000

Contact: Stephen T. Thompson
(714) 492-0993

MORTGAGE SYSTEMS AND SERVICE, INC.
1400 North Burton Place
Anaheim, CA 92806

PMS-11 (Property Management)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts receivable • General ledger
• Property management

Distribution media: RL01, RL02, RX01.

This program provides for both commercial and residential requirements. Tenant billing and accounts receivable age analysis are produced. Property and tenant master files are maintained to control lease expirations, scheduled rent increases, insurance expiration, and so forth. The system interfaces with Franklen's CPA-11, General Ledger/Financial Reporting System, to produce user-definable financial statements and consolidations.

A version of this product is available for the VAX computer.

Price: \$1500 - \$2100

Contact: Frank J. O'Kane, President
(213) 441-3123

FRANKLEN COMPUTER SYSTEMS, INC.
715 Fremont Avenue
South Pasadena, CA 91030

PMS (Property Management System)

Operating System: RSTS

Keywords: • Financial analysis • Information management
• Property management

PMS is a comprehensive, easy-to-operate, automated management tool for large or small property managers. PMS can be modified to meet your needs. The program will update and retrieve property lease information by complex, building, and unit; track rent receipts and delinquent rent payments; maintain tenant information files with deposit amounts, lease terms, and demographic data; prepare lease-status reports indicating leased versus vacant properties and dates of vacancies; provide expiration reports showing dates of expiring leases and lease amounts; prepare estimated lease-revenue reports by complex, building, and unit; interact with the word processing system for correspondence with tenants and reporting to investors; and interact with the spreadsheet system for financial planning purposes.

A version of this product is available for the VAX computer.

Price: \$1500 - \$20,000

Contact: William R. Paschal, Jr.
(405) 843-7323

DATATEK CORP.

818 N.W. 63rd

Oklahoma City, OK 73116

PMS (Property Management System)

Operating System: BOS/5, MBOS/5

Keywords: • Accounts receivable • Financial analysis
• General ledger • Property management

PMS, for the professional property manager, handles the record keeping and control of properties — whether apartments, condos, office premises, or single-family units — and their tenants. A complete accounting system keeps detailed records of payments, receipts, and amounts due and also generates comprehensive financial information, including budgeting and forecasting data, for owners and investors.

Compatible software packages in word processing, spreadsheets, and listings are also available.

Price: \$2300 - \$3850

Contact: Joanne S. Jensen
(415) 367-6264

PORTABLE SOFTWARE INC.

650 Bair Island Road, Suite 204

Redwood City, CA 94063

Project Inventory Control for Time-Shared Resorts

Operating System: RSTS, TSX-PLUS

Keywords: • Accounting • Inventory • Property management
• Sales analysis

This program for the time-share developer allows easy entry of the details of a sales transaction. The program performs calculations and updates the files associated with a sale. The required entries are automatically made to a field-proven, powerful accounting system. A series of time-share-related reports is immediately available, reflecting the changes from a pending sale through to the "front-desk" reports.

Input the details of a sales transaction, and the following information becomes available: reports of pending unclosed sales and unsold inventory (with prices); a cash forecast from pending sales, sorted by closing dates; a history of cash versus financed transactions; discounts given as a percent of list prices; sales reports showing discounts, generation, salesperson, marketing costs, owner name, and other details; monthly and year-to-date sales totals showing unit, intervals, and owner; total sales by marketing sources; inventory availability automatically checked; and automatic updating of accounting files (G/L, accounts receivable entries such as sales, discounts, commissions, dues, and notes receivable).

Owners' files are created to be used with word processing for automatic billings, mailings, and so forth. Remote terminals at sales sites can be used to update information daily. The program also provides security levels, dramatically reduces bookkeeping preparation, and provides up-to-the-minute detail reports for increased control. The program interfaces with the MCBA accounting packages.

A version of this product is available for the VAX computer.

Price: \$6500 - \$9000

Contact: Tim Stephenson, Vice President, Marketing
(303) 232-9417

RESORT COMPUTER CORP.

2801 Youngfield Street, Suite 301
Golden, CO 80401

Property Management (Rental)

Operating System: CTS-300, RT-11

Keywords: • Accounting • Financial analysis
• Property management • Scheduling

This system allows the property manager to control and report on the financial aspect of the buildings managed, to keep a full record of all units within buildings within projects, and to generate financial statements for individual buildings or projects, as well as for the consolidated operation. New buildings can easily be added to the system.

The system handles the automatic chargeup of monthly charges, which can include rent, condominium fees, parking, cable charges, and so on for all occupied units. The system keeps track of lease-renewal dates for the generation of renewal letters and will automatically apply percentage increases as permitted by law for lease renewal. Delinquency letters are generated, based on severity of delinquency. Vacancy lists can be printed on request, and unit expiry lists can be printed for any specified date. Full tenant information and history are maintained for all active tenants. Up to three previous tenants and one future tenant can be associated with any unit, permitting collection of debts from previous tenants to be handled easily.

The integrated accounts payable system allows cash disbursements to be distributed appropriately to one or more of the buildings or projects as determined by the property manager. An automatic check-generation facility is also available. A full set of financial statements is provided, including Detailed and Summary Trial Balances, Income Statement, and Balance Sheet.

A version of this product is available for the VAX computer.

Price: \$5000 - \$10,000

Contact: Nigel Harris
(613) 829-8888

HARRIS COMPUTER SYSTEMS
16 Credit Union Way
Nepean, Ontario K2H 8R6
Canada

Property Management System

Operating System: RSX

Keywords: • Mailing lists • Property management

This computer service for recording and retrieving monthly rents and fees is fast, easy to operate, time saving, and economical. The system enables one person to enter up to 1000 checks a day, prints out cash receipts for the day or month, prints out delinquencies for any date, automatically adds on late charges, automatically records security deposit interest when earned, provides lease termination to any date in the future, shows vacancies now and those coming up, prints out mailing list labels, provides permanent information sheets on all tenants, and provides a permanent receipt record for each tenant.

You can operate from any location that has access to a telephone. This system records and deposits checks on the same day, providing immediate cash flow; spots incorrect entries on the same day, before deposits are made; receives daily reports, if required; and chooses from four methods of using this service.

Price: \$10,000 - \$15,000

Contact: John H. Lynch
(203) 332-1960

MANAGEMENT SERVICES CO.

2710 North Avenue, Suite 102

Bridgeport, CT 06604

Real Estate Information System

Operating System: Micro/RXS, RSTS, RSX, RT-11, ULTRIX-11

Keywords: • Data base management • Property management
• Query facilities • Source code control

Distribution media: RL02, RX50.

This easy-to-use state-of-the-art information system is available in residential and commercial modules. The system features master file updates and reports for residential and commercial properties, update files for daily logs without tampering with the master files, comparable files to keep sold properties separately for future use in property assessments and negotiations, and flexible query facilities for fast recall of properties satisfying any list of criteria.

This software package is easy to modify with its powerful data base manager, when the user buys the source code option. Run-time only modules are also available. The package comes with installation, three hours of intensive training, six months' free phone support, and more.

A version of this product is available for the VAX computer.

Price: \$2000 - \$6000

Contact: Michael A. Sce
(718) 377-6998

SOFTWARE CONSULTING ENTERPRISES, INC.

1360 Ocean Parkway, Apt. 3H

Brooklyn, NY 11230

Real Information

Operating System: CTS-300, RT-11, TSX-PLUS

Keywords: • Information management • Mailing lists

This farm/ranch or commercial real estate-oriented data base offers Client Information, Comparable Sale Information, Property Information, and Closing Statement. Each stand-alone program can be purchased separately. Client Information offers mailing lists sorted

alphabetically or by zip code and complete information on a prospect, with comments that are dated and stored for future reference. Comparable Sales offers immediate reference by sale number or seller's name. Property Information offers quick reference for listings by number or name of seller. Closing Statement handles all types of real estate transactions, including a statement for the writing of the escrow checks.

This software has been tested by other firms since 1982 and is bug free.

Price: \$4000

Contact: Jim Hayes

(806) 874-3546

JAMES F. HAYES & CO.

P.O. Box 1004

Clarendon, TX 79226

Realise

Operating System: RT-11

Keywords: • Credit • Sales analysis

Memory required: Minimum 64KB; optimum 128KB. Distribution medium: RX02.

This package automates all the daily functions in a residential real estate office. The package maintains all listings and sales. Reports list the office's productivity and the individual sales associate's productivity. Other reports and programs include a complete mailing label service, a means of cultivating listings from the broker's vicinity, and complete buyer qualification.

Credit reporting is provided with a phone line and a Hayes Smartmodem 1200. The user enters the name, the address, and social security number of the client. The system dials into the credit agency and prints the client's credit history.

The system is menu driven and user friendly and includes one year of phone support, a user manual, and a test data file for training purposes.

The package runs on any RT-11 Version 4 or higher system. The single-job monitor is required. The package will run on a single RL02 disk system. The software is written in Oregon Software's Pascal-2 compiler and MACRO-11.

Price: \$5600

Contact: Thomas J. Kappeler

(609) 983-6588

KAPPELER COMPUTING SYSTEMS

3405 N. Elberta Lane

Marlton, NJ 08053

Residential Property Management

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounting • Accounts receivable • Billing
• Property management

This easy-to-use series of interactive programs, designed for building managers demanding complete financial control, stores instant-access information about projects, buildings, units, and leases, as well as user-defined parameters, such as sundry adjustments, unit sizes, and miscellaneous charges and deposits. Used in combination with transaction postings (rental posting, cash receipts, refunds, and so on), revenue summary, control, lease status, rent roll, and arrears reports are available. The Residential Property Management system features multiple-unit types, multiple leases, master parameter flexibility, transaction processing, history transactions, automatic rent calculation, notices, general ledger, deposit slips, rental increases, vacancy inquiry, sublets, and NSF checks.

A version of this product is available for the VAX computer.

Price: \$3000 - \$15,000

Contact: Tom Muskiluke
(519) 893-4200

DIGITAL BUSINESS COMPUTERS
133 Manitou Drive
Kitchener, Ontario N2C 1L4
Canada

Resort Property Management

Operating System: RT-11

Keywords: • Accounting • Property management

This system for the multioffice or single-office company provides monthly P and L for each office and consolidated accounting with prior-year and budget comparisons; accounts receivable; accounts payable with vendor 1099; payroll; and schedules for fixed assets, notes payable and receivable, and other schedules. Features include the handling of reservations, with such information as name and address of guest, description of desired unit, dates, guest services requested, and so forth. In addition, deposit accounting, cash receipts, and cash disbursements with check-writing capabilities are included. An operation's statement shows in detail the activity on each property, the owner's year-to-date statement, the occupancy report for each property, the cash-flow analysis for each property, and the unit-availability tables for each property. Also included are complete records for all management services provided a guest, as well as a guest history file, which enables the management company to generate repeat business from a prior guest.

The UDS Resort Management System may be integrated with the UDS General Ledger Accounting package. All UDS systems are delivered with word processing capabilities.

Price: \$4800 - \$12,000

Contact: William P. Irwin, Jr.

(404) 724-7761 or (800) 241-2404

UNITED DATA SYSTEMS, INC.

501 Greene Street, Suite 220

Augusta, GA 30901

RESPAC (Real Estate Sales Data Retrieval Package)

Operating System: RSTS

Keywords: • Data base management • Property management
• Query facilities

The RESPAC data base management system, used for local areas or for statewide coverage, provides menu-driven on-line inquiry of real estate sales transactions. RESPAC includes up to eight systems for residential and commercial sales retrieval needed by realtors and appraisers.

Price: \$5000 - \$50,000

Contact: R. Howard Sears

(405) 843-6626

MARKET DATA RESEARCH, INC.

5500 N. Western Avenue, Suite 115

Oklahoma City, OK 73118

Timeshare Contract Management System

Operating System: RSTS

Keywords: • Financial management • Recreation
• Sales and marketing

This system is designed to manage deposits, contracts, commissions, and sales performance information for companies that sell vacation time sharing. The system's functions include deposit accounting, sales contract processing, commission accounting, and cancellation processing. Deposit functions allow the entry of one or more deposits for each client prior to entry of the contract. Sales contract entry allows automatic retrieval of deposit information from the deposit file or direct entry of deposits received. All contract data is verified at contract entry against attribute files, financing algorithms, and policy information. The system differentiates between broker and company sales. Input of tax information, deductions from sales, and bonus weeks are provided, with appropriate accounting accommodated. All financing information, including processing fees, is verified, with erroneous contracts rejected. Salesperson and broker commissions are computed (up to six for each contract) and posted to

the salesperson/broker file. A general ledger interface file is produced as a part of the update, with provisions for interfacing deposit accounts, sales accounts, accounts receivable, current and deferred commission, tax and deduction amounts, and forfeiture income by sales office. Contract cancellation provides for inputting refund information with computation of forfeiture income, adjustment to commissions earned, and appropriate general ledger entries.

Supporting files include salesperson/broker, type of sale, and office G/L account file. The date-driven system provides contract file listings, sales analysis by salesperson/broker, type of sale, and sales by sales office for any period of time. Commission records are maintained by salesperson, with 1099s provided at year end. Deposit accounting provides aged reports of deposits on file by client by any date periods.

The system is designed to interface with the Compu-Share general ledger system and uses the CSI screen-handling functions.

A version of this product is available for the VAX computer.

Price: \$4000

Contact: William L. Dempsey
(702) 384-7641

SIMCO, INC.

801 S. Rancho Drive, Suite E-2
Las Vegas, NV 89106

UDS PMAS (Property Management Accounting System)

Operating System: RT-11

Keywords: • Accounting • General ledger
• Property management

This complete system for multioffice companies provides monthly P&L for each office, as well as consolidated accounting with prior-year and budget comparisons; accounts receivable; accounts payable with vendor 1099; payroll; construction investment; and schedules for fixed assets, notes payable, notes receivable, and other schedules as needed by the customer.

Property management features include the handling of commercial and residential properties; a tenant profile showing lease management information for commercial tenants; automatic accrual of rent and late charges; an operations statement showing detail of activity on each property; owners' year-to-date report, P&L with budget comparison, cash flow, and occupancy report for each property; and delinquency, lease expiration, and security deposit reports for each tenant. The computer prints checks to property owners, vendors, and mortgage companies. Form 1099s for owners and vendors are provided.

The UDS Property Management System may be integrated with the UDS systems for real estate and insurance accounting. All UDS systems are delivered with word processing capability.

Price: \$4800 - \$12,000

Contact: William P. Irwin, Jr., Director of Marketing
(404) 724-7761 or 1-800-241-2404

UNITED DATA SYSTEMS, INC.
501 Greene Street, Suite 220
Augusta, GA 30901

UDS Real Estate Sales Analysis

Operating System: RT-11, TSX-PLUS

Keywords: • Data base management • Inventory
• Property management • Sales analysis

Memory required: 128KB. Distribution media: 5¼" diskettes, RL02.

This package, written in COBOL, offers complete inventories of active, expired, and expiring listings and closed and pending sales. Each report shows not only the property address and price and date listed and expiring but also the potential, lost, or earned commissions for the listing agent, selling agent, and company dollar. A potential-revenue report can be generated to show the anticipated cash flow over the next 30, 60, 90, and so on days, based on the expected closing dates of pending sales. Monthly and year-to-date agent-activity reports and commission statements showing income and expense items for each sales agency are readily available. Automatic commission calculations, market-trend analysis, client follow-up, and relocation/referral are featured.

Price: \$1900 - \$4800

Contact: William Irwin
(404) 724-7761 or (800) 241-2404

UNITED DATA SYSTEMS, INC.
501 Greene Street, Suite 220
Augusta, GA 30901

UDS REAS (Real Estate Accounting System)

Operating System: RT-11

Keywords: • Accounting • General ledger
• Property management

This complete system for multioffice companies provides monthly P&L for each office, as well as consolidated accounting with prior-year and budget comparison; accounts receivable, accounts payable with vendor 1099; payroll; construction investment; and schedules for fixed assets, notes payable, notes receivable, and other schedules as needed by the customer.

The real estate features include accounting for commissions payable and earnest money escrow; an inventory of listings — active, expired, and expiring next month; pending sales reports showing projected income for agent, office, and company; closed-sales information retained to provide client followup, market trend analysis, and agent production analysis; reports for listings, pending sales, and closed sales that are available by sales office and the entire company and that show potential and earned commissions for agent, office, and company dollar; and ranking of agents by listings, sales, and commissions earned.

The UDS Real Estate Accounting System may be integrated with the UDS systems for Property Management and Insurance Accounting. All UDS systems are delivered with word processing capability.

Price: \$4800 — \$12,000

Contact: William P. Irwin, Jr., Director of Marketing
(404) 724-7761 or 1-800-241-2404

UNITED DATA SYSTEMS, INC.

501 Greene Street, Suite 220

Augusta, GA 30901

Recreation



George Belenose / Stock, Boston

BOCS (Box Office Computer System)

Operating System: RSX

Keywords: • Point of sale • Real time

This package is a real-time seat reservation and ticketing system for theaters, leisure centers, and sports arenas. BOCS is appropriate for single or multivenue entertainment complexes with 500 to 100,000 seats.

BOCS offers unique displays of seating plans, and users have complete freedom and control over ticket content and format. The system includes all the functionality to handle single, group, and subscription sales, with full marketing and donor recording and analysis. Stand-by facilities and a fully integrated private viewdata option are available to provide a remote sales network.

BOCS is normally supplied as a total installation package, including hardware, software, training, documentation, support, and maintenance and may be purchased outright, leased, or rented.

A version of this product is available for the VAX computer.

Price: \$40,000 – \$700,000

Contact: Karl Sydow, Vice President, Sales
(212) 496-8994

SPACE-TIME SYSTEMS, INC.
155 West 72nd Street, Suite 503
New York, NY 10023

Country Club Accounts Receivable

Operating System: RSTS

Keywords: • Accounts receivable

Designed expressly for country clubs, this package generates management reporting information and provides audit trails, aged trial balances, and cash flow analysis. Special club-orientated features include a dual address file, automatic membership billing functions, and immediate individual member status.

Price: \$3000 – \$4000

Contact: Shelia A. McPartland, Customer Account Representative
(305) 652-1710

FLORIDA COMPUTER, INC.
99 N.W. 183rd Street, Suite 126
N. Miami, FL 33169

Country Club Golf Handicapping System

Operating System: RSTS

Keywords: • Calculation aids • Report writer • Statistics

The USGA-based Country Club Golf Handicapping System produces detailed reporting of handicaps by male and female categories, allows members to enter their own handicaps, and generates score cards.

Price: \$1000 - \$2000

Contact: Shelia A. McPartland, Customer Account Representative
(305) 652-1710

FLORIDA COMPUTER, INC.
99 NW 183rd Street, Suite 126
N. Miami, FL 33169

Country Club Payroll System

Operating System: RSTS

Keywords: • Payroll

This standard payroll package handles the intricate gratuity and meal allowance aspects of many country clubs. The system provides detailed reports of employee payroll status, both current and year to date. Along with the usual check and base registers, tax and labor distribution information is also available.

Price: \$1500 - \$2500

Contact: Shelia A. McPartland, Customer Account Representative
(305) 652-1710

FLORIDA COMPUTER, INC.
99 NW 183rd Street, Suite 126
N. Miami, FL 33169

Golf League Records

Operating System: RT-11

Keywords: • Scheduling • Statistics

Memory required: BASIC interpreter + 11,712 words.

This program keeps records of golfers' scores and golf team competition each week for approximately 20 weeks. Each player receives a weekly report showing the latest gross score shot, net score, new handicap, tee-off time, opponents (with their handicaps), next week's tee-off time, opponents for next week, remaining fees due, team standings, and any messages. A separate tee-off schedule for all teams, a team competition summary sheet, and an updated gross and net score sheet are printed out for the operator's reference. Players are paired to form a 2-person team. Two points are awarded for a win, one point for a tie, and zero points for a loss. DECUS number 11-534.

Note: The initialization program GLFINT.BAS, needed to set up data files, is provided on the media.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Sporty

Operating System: CTS-300, RT-11

Keywords: • Information management • Inventory • Retail
• Sales analysis

This complete inventory management system for the sporting goods retailer with branch locations records a year's inventory through purchasing, receiving, transferring, selling, and reporting. Sporty consists of four screen menus of programs. The first menu is for the setup and maintenance of files such as inventory item, department/class, vendor, and size tables. The second menu allows for purchasing, receiving, and transferring stock. The third menu is for recording sales and for producing reports that reflect the status of the inventory. The fourth menu covers a complete selection of reports.

A version of this product is available for the VAX computer.

Price: \$5000 - \$10,000

Contact: Nigel Harris
(613) 829-8888

HARRIS COMPUTER SYSTEMS
16 Credit Union Way
Nepean, Ontario K2H 3R6
Canada

Research



Cambridge

BMDP Statistical Software

Operating System: IAS, RSTS, RSX, RT-11

Keywords: • Data collection • Scientific • Statistics

These programs aid data analysis by providing functions that range from simple data display and description to advanced statistical techniques. Data is analyzed by an iterative "examine and modify" series of steps. First, the data is examined for unreasonable values, graphically and numerically. If unreasonable values are found, they are checked and, if possible, corrected. An analysis is then performed. That analysis may identify other inconsistent observations or indicate that further analyses are needed.

The BMDP programs are organized so that the problem to be analyzed, the variables to be used in the analysis, and the layout of the data are specified in a uniform manner. That permits different analyses of the same data with minor changes in the instructions. Instructions are given in an English-like control language. Data can be stored or passed between programs, using self-documented BMDP files.

This package contains 40 programs loosely classified under data description, frequency tables, regression analysis, analysis of variance, multivariate analysis, life tables and survival analysis, time-series analysis, and miscellaneous techniques.

A version of this product is available for the VAX computer.

Price: \$1050/yr - \$2900/yr

Contact: Lynda K. Glassner

(213) 475-5700 or Telex: 4992203

BMDP STATISTICAL SOFTWARE, INC.

1964 Westwood Boulevard, Suite 202

Los Angeles, CA 90025

CALC: An Interactive Computer Language with Unlimited Numerical Precision

Operating System: RT-11

Keywords: • Calculation aids • Interpreters • Scientific

Memory required: 24K words.

CALC accepts simple BASIC-like statements and performs scientific computations with as many decimal digits as the user wishes, the upper limit being determined by the memory size of the computer. The variable names are restricted to a single character from A to Z. No DIM statement exists, and only one array (called ARR) is available. The programming feature is implemented using files in auxiliary storage; the program size is limited only by the file space. The

fundamental trigonometric and logarithmic functions are included. The internal representation of numbers is the floating-point binary-coded decimal.

The CALC interpreter is coded in ANSI FORTRAN and has been tested to work unaltered on both the Univac 1108 under Exec 8 and the PDP-11/10 under RT-11. Approximately 100 to 200 decimal digits of precision can be used on a PDP-11/10 with 24K words of memory. DECUS number 11-369.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

CHROM (Chromatography Graphics and Analysis)

Operating System: CTS-300, RSTS, RSX, RT-11, UNIX* (System III, System V, Version 7)

Keywords: • Chemical • Engineering • Graphics
• Scientific

This interactive program plots and quantitatively analyzes up to two sets of chromatography data, based on sequential samples obtained from one or two chromatographic analyses. Data is stored in one or two 2- to 4-column files. File names and column identifiers (abscissa and ordinate axes) are input interactively, as are several other user options. Entire chromatograms or portions of interest are plotted and scaled automatically. One or both chromatograms are analyzed by numerical integration of all peaks. The results are expressed directly on the same plot, at the same time, as a percentage in each peak of the total ordinate units recovered in the chromatogram — for example, percent in each peak of total radioactivity cpm recovered in all chromatographic samples.

The program is written in FORTRAN, in modular form, for the VT55 graphics terminal. Adaptation to other terminals/devices should not be difficult. Full source code is provided.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$500 +

Contact: Dr. Joseph J. DiStefano III, Professor
(213) 825-7482 or 825-4033

UNIVERSITY OF CALIFORNIA, LOS ANGELES
School of Engineering and Applied Science
Biocybernetics Laboratory, 4731K Boelter Hall
Los Angeles, CA 90024

CHROMPAK (Chromatography Analysis Package)

Operating System: CTS-300, RSX, RT-11, UNIX* (System III, System V, Version 7)

Keywords: • Chemical • Data collection • Engineering
• Health care

CHROMPAK helps collect and analyze chromatography data. Modular programs are quickly adapted to a variety of measuring instruments and collection techniques. The following programs are available:

- **DATAIN** collects and stores data from a gamma or beta counter, spectrophotometer, and so on. Data files are multicolumn, ASCII format for use with other utilities.
- **PEAKS** analyzes data files and reports on total data, location and percentage of peaks, percent total recovery, and other invaluable statistics.
- **SUMGRAM** sums or integrates all the data in a file (chromatogram).
- **CHROMPLOT** displays one or two chromatography files on a CRT terminal. Functions are same as CHROM.
- **BKSUB** accepts two input files — one data file and one instrument noise file. The output is a file with noise subtracted from data.
- **DELA, DELB** strips off one or more columns from a multicolumn data file.
- **CORRECT** allows the user to adjust data values to compensate for machine or technique idiosyncrasies, such as tube geometry or volume correction for a gamma counter.
- **NORM** normalizes a multicolumn file to time, volume, and so forth.
- **ZEROSERT** inserts zero data values in a data file.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$1000 – \$2000

Contact: Dr. Joseph J. DiStefano III, Professor
(213) 825-7482

UNIVERSITY OF CALIFORNIA, LOS ANGELES
School of Engineering and Applied Science
Biocybernetics Laboratory, 4731K Boelter Hall
Los Angeles, CA 90024

CLIN-TEAMS®

Operating System: RSX

Keywords: • Data collection • Health care • Medical
• Scientific

This integrated system of programs for the clinical trial environment collects data on computers as small as a single-user system and is offered in a BASIC-PLUS-2 version. Data, collected by filling in case report form images on the CRT, is transferred at predetermined intervals for integration into the central data base.

Data collection formats for new studies can be set up (protocol compiled) interactively without reprogramming. Branching logic in the system directs the user to specific questions based on the response to the current question.

This flexible, user-friendly system is both menu driven and protocol driven. A monitoring report-generating facility lets you tailor interim reports and unload the data to a sequential data file for use with statistical analysis programs, such as SPSS, BMDP, and SAS.

Other programs can run while CLIN-TEAMS is being used, allowing it to fit well into a multiuser, multiprogramming environment on the host computer.

A version of this product is available for the VAX computer.

Price: \$46,000

Contact: Floyd E. Leaders, Jr., Ph.D.
(214) 386-5764

TECHNICAL EVALUATION AND MANAGEMENT
SERVICES, INC.

13601 Preston Road, 820 Carillon Tower West
Dallas, TX 75240

DATAIN

Operating System: RSX, RT-11, UNIX* (System III, System V, Version 7)

Keywords: • Biology • Data collection
• Device drivers/handlers • Engineering

DATAIN is a computer/laboratory instrument interface written in C. DATAIN is adaptable to any instrument with an asynchronous serial (RS232) interface.

The program establishes contact with the instrument, conditions I/O channels, and opens input files. The operator is then prompted to begin data transmission. Operator intervention is not necessary until collection is stopped. Thus, DATAIN can be run unattended for long periods.

Files are automatically named by date or may be individually named by the operator. The data is error checked at input and is stored as ASCII characters for easy interpretation and manipulation by other program tools.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$500 - \$1000

Contact: Dr. Joseph J. DiStefano III, Professor

(213) 825-7482 or 825-4033

UNIVERSITY OF CALIFORNIA, LOS ANGELES

School of Engineering and Applied Science

Biocybernetics Laboratory, 4731K Boelter Hall

Los Angeles, CA 90024

Elliptic Integrals and Functions

Operating System: RT-11

Keywords: • Calculation aids • Mathematics
• Programming tools

Elliptic consists of a set of FORTRAN-callable subroutines that calculate complete elliptic integrals of first and second kind; incomplete elliptic integrals of first, second, and third kind; and Jacobian elliptic functions am, sn, cn, and dn for real modules and arguments. DECUS number 11-676.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

European MINC Package #5 — Data Analysis

Operating System: RT-11

Keywords: • Biology • Dental • Signal processing

The following is a brief description of the programs:

- CURFON — A regression program cleaning out experimental spectrum
- USQUE — User question (treatment of surveys)
- DAMIX — Computer mix of variables for regression; a new version of a MAP 1 program
- ROTAN — A rotational signed analysis program; Fourier signal analysis (up to 20 kHz input signal)
- EMAFIT — High-precision experimental curve fitting
- CEPH — Orthodontic evaluation of lateral skull radiographics, using a (SAC) Graf pen and a GP-6-20 digitizer
- AVERAG — A general average package for biochemical signal processing
- VARRITT — A 1-way analysis of variance
- Plant identification by generalized least-squares method

DECUS number 11-576.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

FEP2: A Finite Element Program for 2- and Axisymmetric 3-Dimensional Continua

Operating System: RSTS, RSX, RT-11

Keywords: • Materials handling • Mathematics • Simulation

Memory required: 28K.

FEP2 is a program for the analysis of elastic solids. Both constant strain and higher-order continuum elements are included, along with a special element for incompressible media. The program uses an out-of-core skyline equation solver, so the problem size is not restricted by storage of the global stiffness matrix. DECUS number 11-461.

Note: FEP2 was tested under RT-11 but will probably run under all systems.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

FISH: Post- and Interspike Interval Analysis

Operating System: RT-11

Keywords: • Biology • Graphics • Medical • Statistics

Memory required: 4K.

FISH.MAC generates two programs that collect, display, and store intervals between single neuronal action potentials in real time. ISH counts and orders absolute intervals between spikes; PISH collects and sums spike intervals after synchronizing pulses. Histograms are constructed and displayed on a VT55 graphics terminal. The data acquisition rate is 1 kHz, using double-precision arithmetic. A version that executes on a MINC system with MNCKW is included. DECUS number 11-320.

Note: Quanda overruns have been fixed.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

FITPACK (Curve and Surface Fitting Package)

Operating System: UNIX* (Version 7)

Keywords: • Mathematics

FITPACK is a collection of FORTRAN programs for curve and surface fitting, using spline functions. Automatic knot selection, error smoothing, and data reduction are included. The user provides a parameter by which to control the trade-off between closeness of fit and smoothness of fit. Confidence limits for that parameter are available if the statistical errors on the data points can be estimated.

In addition to a standard routine for curve fitting over an interval and a routine for surface fitting over a rectangle, the package contains special programs for smoothing periodic functions, parametric curves (closed or otherwise), functions with convexity constraints, and data over a rectangular grid and over the sphere. Routines are included for evaluating, differentiating, and integrating the spline approximations.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$50

Contact: Paul Dierckx

32-16-20-06-56

UNIVERSITY OF LEUVEN, DEPT. OF COMPUTER
SCIENCE

Celestijnenlaan 200 A

B-3030 Heverlee

Belgium

FORTH: Programming System

Operating System: RT-11

Keywords: • Compilers • Mathematics • Programming tools
• Text management

Memory required: 8K (16K+ for assembly).

FORTH is a self-contained programming system for scientific applications requiring interactive control and data acquisition. The system supports a high-level structured language using reverse Polish notation and contains an incremental compiler, an assembler, and a text editor. RT-11 FORTH maintains any number of RT-11 disk files. Application packages are included for an extended text editor and floating-point mathematics. DECUS number 11-232.

Restrictions: This version of FORTH does not have stand-alone capability. DECUS does not have a version of FORTH that runs under RSX.

Associated documentation: Users must obtain *Caltech FORTH Manual* (second edition) from the Caltech Bookstore, California Institute of Technology, Pasadena, CA 91125.

Note: FORTH will use EAE, EIS, or FIS options if present. A companion DECsystem-10 version is available as DECUS number 10-241.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

GAMMA-11 F/B, Version 3.3

Operating System: RT-11

Keywords: • Data collection • Medical • Nuclear

Distribution media: 9-track 800 bpi magnetic tape, RK05, RL01, RL02, RX02.

This hardware/software system designed for nuclear medicine can acquire, store, display, and manipulate images from the gamma camera in order to supply quantitative, meaningful clinical information. In the foreground/background configuration, gamma camera data acquisition can take place independently of another process. This configuration includes two terminals: the foreground acquisition terminal for the gamma camera, which controls the setup and initiation of data collection, and the background terminal, which can be used simultaneously with the foreground terminal for data analysis by GAMMA-11 F/B programs, for program development in BASIC or FORTRAN, or for running any other programs that do not need immediate access to the disks for successful completion.

Only one terminal is included in the single-job configuration. That configuration has all the capabilities of the foreground/background system, except that data acquisition and processing cannot be carried out simultaneously.

Refer to SPD #15.60.13 when requesting further information on this product from your local DIGITAL sales office.

Price: \$333 - \$3500

Contact: Consult your local DIGITAL sales office (see Introduction).

Gamma Spectroscopy Applications Package

Operating System: RSX, RT-11

Keywords: • Calculation aids • Instrumentation • Nuclear
• Scientific

Distribution media: 9-track 1600 bpi magnetic tape, RX01, RX02, RX50, TU58 DECTape II cartridge.

This set of programs, written in FORTRAN, performs quantitative analysis of high-resolution gamma-ray spectra. The package enables a user to control and transfer data to/from a multichannel analyzer, as well as to find the area and energy of all photopeaks in a gamma-ray spectrum. Programs include a peak-determination routine, an isotope activity calculation, environmental background subtraction, and system calibration routines. The peak-determination program allows multiple resolution (deconvolution) of up to 10 peaks in a

single region, yielding peak area, energy, and statistics. The environmental background routine includes background subtraction, correction for interfacing or unresolvable peaks, and a weighted-mean activity calculation for isotopes having multiple peaks.

An optional quality assurance package provides a means to verify and record spectroscopy system performance over time.

A version of this product is available for the VAX computer.

Price: \$4250 - \$10,000

Contact: R. J. Schlossmann
(312) 884-3627

NUCLEAR DATA, INC.
Golf and Meacham Roads
Schaumburg, IL 60196

GLIM-3

Operating System: CTS-300, IAS, RSTS, RSX, RT-11, UNIX*
(System V)

Keywords: • Education • Mathematics • Statistics

GLIM-3 was developed by the British Royal Statistical Society for generalized linear modeling, vector calculation with various output options, data exploration, and teaching. As a modeling aid, GLIM-3 handles linear, loglinear, logit and probit models, and models with gamma errors. Specification of standard models is simple but powerful, allowing refinements, such as prior weights and the fixing of certain parameter values. Any generalized linear model can be handled and robust regression procedures developed. Powerful macro definition facilities are available.

GLIM-3 can operate with general arithmetic expression on vectors and scalars; subvectors are easily manipulated. The package can be used interactively or in batch mode. Interactive use is appropriate to data exploration — for instance, in the search for linearity-inducing transformations. As a teaching aid, GLIM-3 lets the student concentrate on the statistical aspects of a problem without concern about arithmetic.

GLIM-3 consists of a single FORTRAN program of about 11,500 lines, of which about 40% are comments. The program runs efficiently in an overlaid form.

In North America, contact James C. T. Pool (312) 971-2337, Numerical Algorithms Group, Inc., 1101 31st Street, Suite 100, Downers Grove, IL 60515.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: £180 – £360

Contact: Janet Webb

+44 865 511245

NUMERICAL ALGORITHMS GROUP LTD.

NAG Central Office

Mayfield House, 256 Danbury Road

Oxford OX2 7DE

United Kingdom

IAE (Interactive Editor)[™]

Operating System: RSX, RT-11

Keywords: • Scientific • Signal processing
• Text management

Developed by Signal Technology, Inc., this FORTRAN program for editing speech parameters for hardware and software speech synthesizers features vocabulary generation in a voice-response system, speech synthesis-quality enhancement, acoustic/phonetic experimentation, speech parameter plotting and verification, and parameter manipulation, interpolation, and transformation. IAE allows manipulation of speech parameters generated by linear prediction or format-analysis programs. Standard mnemonic names identify the speech parameters. Twenty locations are reserved for additional parameters with user-definable mnemonic names. The editing features permit display of up to five parameter tracks at a time or the printing of numeric values. The editor can replace old values with new ones, move and scale parameters, and interpolate parameters over specified time intervals. IAE utilities transform frequency and bandwidth data to linear prediction coefficients.

The IAE program is an add-on option to Signal Technology's Interactive Laboratory System (ILS), which is a high-level software package for user-oriented digital signal processing.

DIGITAL distributes this software product under license from Signal Technology, Inc., 5951 Encina Rd., Goleta, CA 93117.

Refer to SPD #A0.20.02 when requesting further information on this product from your local DIGITAL sales office.

IAE (Interactive Editor)[™] is a trademark of Signal Technology, Inc.

A version of this product is available for the VAX computer.

Price: \$5000

Contact: Consult your local DIGITAL sales office (see Introduction).

IDL (Interactive Data Language)

Operating System: RSX

Keywords: • Engineering • Graphics • Scientific

Distribution medium: magnetic tape.

This interactive software system analyzes, reduces, and displays scientific and engineering data. IDL combines self-describing array-oriented data sets, operators, functions, and powerful graphic and image-display capabilities into a complete interactive system.

Applications include physics, astronomy, medicine, engineering, and image processing.

A version of this product is available for the VAX computer.

Price: \$2750 – \$10,700

Contact: David M. Stern
(303) 399-1326

RESEARCH SYSTEMS, INC.

2021 Albion Street
Denver, CO 80207

Laboratory Applications-11 Library

Operating System: RT-11

Keywords: • Calculation aids • Chemical • Electrical
• Scientific

These software modules and operational programs are designed to solve typical laboratory problems. The library provides a group of software modules that, when linked with a user-written calling routine, results in a program to solve many laboratory computer applications. User-developed modules, following well-defined guidelines and rules, can be combined with library modules to generate tailored programs. DECUS number 11-448.

Note: The manual describes the functional characteristics of a particular module, programming information, and release notes.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

LSP-11 (Laboratory Subroutine Package), Version 1.2

Operating System: RSX, RT-11

Keywords: • Calculation aids • Data collection

Distribution media: 9-track 800/1600 bpi magnetic tape, RK05, RK06, RL01, RL02, RX01.

These FORTRAN-callable subroutines perform standard analytical tasks commonly encountered in the laboratory. The subroutines are dedicated to processing data that has been acquired by other laboratory data-acquisition software.

The Laboratory Subroutine Package provides the user with the following data-manipulation subroutines: peak processing, envelope processing, interval histogramming with reference points, Fast Fourier transform, phase angle and amplitude spectrum, power spectrum, and correlation function.

Refer to SPD #15.44.06 when requesting further information on this product from your local DIGITAL sales office.

Price: Available upon request

Contact: Consult your local DIGITAL sales office (see Introduction).

MICRODARE

Operating System: RSX, RT-11

Keywords: • Engineering • Networking • Scientific
• Simulation

MICRODARE is a direct-executing interactive system for laboratory automation, simulation, and control. Written and edited on a CRT terminal screen, this high-level language executes directly on a typed RUN command and runs at about one-half assembly-language speed. No separate editor, compiler, or linker is needed. MICRODARE/NET permits programming of multiple concurrent tasks running on multiple PDP-11s or LSI-11s, one of which can control the entire system with MICRODARE commands.

Price: \$1600 - \$2400

Contact: G. A. Korn, Professor
(602) 298-7054

UNIVERSITY OF ARIZONA

Electrical and Computer Engineering
Tucson, AZ 85721

Minitab™ Data Analysis Software

Operating System: RSTS, RSX, RT-11, TSX-PLUS

Keywords: • Engineering • Mathematics • Scientific
• Statistics

Distribution medium: 800/1600 bpi magnetic tape.

This general-purpose data analysis system for engineers, social and physical scientists, managers, students, statisticians, and others has 100% compatible batch and interactive modes and is also completely compatible among all supported processors. Data analysis includes descriptive statistics; flexible plotting, including histograms and other displays; multiway tables in various layouts; regression with residual analysis, diagnostics, and stepwise procedures; analysis of variance; nonparametric methods; exploratory data analysis, including features developed by John Tukey; and time series analysis, including Box-Jenkin procedures. General features include easy

transformations and coding, automatic handling of missing values, data editing and manipulation, and input/output from terminal or files.

Complete documentation is available in the *Minitab Reference Manual*, the *Minitab Student Handbook*, and the *Quick Reference Card* and through the on-line HELP facility.

Most Minitab sessions require just a few straightforward commands; new users need less than one hour to get started.

The price range for academic users is \$500 to \$600 a year. Quantity discounts of 20% and 50% are available to qualified customers.

A version of this product is available for the VAX computer.

Price: \$1000/yr - \$1200/yr

Contact: Mary E. Montminy
(814) 865-1595

MINITAB, INC.

215 Pond Laboratory
University Park, PA 16802

NAG FORTRAN Library Service

Operating System: RSX, RT-11

Keywords: • Mathematics • Scientific • Statistics

Distribution medium: magnetic tape.

The NAG FORTRAN Library Service develops, issues, updates, maintains, and supports the NAG Library of subroutines. The NAG Library is a tailored collection of FORTRAN subroutines grouped into chapters of mathematics, operations research, and statistics. Within a chapter, each algorithm is selected to solve an identified type of problem. The Mark 11 NAG Library contains 524 subroutines.

The *NAG Library Manual* has the same chapter structure as the Library. Each subroutine has a document describing the routine and providing a program listing with input data and results. Each chapter introduction gives extensive advice on the selection of routines. An interactive on-line documentation supplement and a graphics supplement, including interfaces to many standard graphic devices, are available.

The NAG Library Service, available through a license agreement on an annual fee basis, includes regular updating of the Library contents; installation, maintenance, and support documentation; a complete set of user documentation; and an algorithms inquiry service.

A version of this product is available for the VAX computer.

Price: \$1600/yr - \$2700/yr

Contact: John Reeves

(0865) 511245

NUMERICAL ALGORITHMS GROUP LTD.

Mayfield House, 256 Banbury Road

Oxford OX2 7DE

United Kingdom

Nal Data Reduction

Operating System: RT-11

Keywords: • Instrumentation • Medical • Nuclear
• Scientific

The NaI program provides a least-squares fit of an unknown spectrum to spectra of up to 10 standards. The program, using the algorithms of the ALPHA-M program written at Oak Ridge National Laboratory, is designed to resolve spectral data collected from sodium iodide or other low-resolution detectors into its component parts. The user specifies the type of analysis to run and the number of possible components in the unknown spectrum. Inconsistent results are flagged for further investigation.

Price: \$1000

Contact: Dan Murphy, Product Support Engineer
(312) 884-3627

NUCLEAR DATA, INC.

Golf and Meacham Roads

Schaumburg, IL 60196

Neutron Activation Analysis

Operating System: RSX, RT-11

Keywords: • Chemical • Instrumentation • Nuclear
• Scientific

Distribution media: 9-track 1600 bpi magnetic tape, RX01, RX02, RX50, TU58 DECTape II cartridge.

This package provides quantitative analysis of samples through either the comparative method or the reactor flux monitoring method. The comparative technique allows multiple standards for each chemical element, averaging results for all standards to calculate a calibration coefficient. The flux monitoring method is internal in methods of standardization.

This package is written in FORTRAN and is structured to allow easy user customization.

A version of this product is available for the VAX computer.

Price: \$2000 - \$5000

Contact: Tom Meyers, Product Support Engineer
(312) 884-3627

NUCLEAR DATA, INC.
Golf and Meacham Roads
Schaumburg, IL 60196

NORTON (Astronomical Ephemeris Program Package)

Operating System: RSTS

Keywords: • Calculation aids • Scientific • Simulation
• Word processing

Memory required: 8K.

This BASIC-PLUS package gives planet and asteroid positions for any date from January 1, 1900. NORTON will run under RSTS Version 4 or 5 (8K job maximum). The package includes astronomy, a planetary position calculator, word processing, and solar system simulation. DECUS number 11-163.

Restrictions: No graphics programs are provided.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

OSS (Optimal Sampling Schedule Designs)

Operating System: CTS-300, RSX, RT-11, UNIX* (System III, System V, Version 7)

Keywords: • Biology • Data collection • Pharmaceutical
• Statistics

OSS is a series of portable FORTRAN programs for computing D-optimal, discrete-time data sampling schedules — designs that maximize the determinant of the Fisher Information Matrix — for different types of standardized and general model and experiment types: "impulse response" or "step response" kinetic experiments in pharmacology and biology for single-input, single-output linear models (built in); multiinput, multioutput linear models (built in); or models of any form by means of FORTRAN user-provided subroutines. Other optimization criteria can be accommodated by substitution of one subroutine. The user has the choice of interactive or batch mode for program input, and both program input and program output are highly readable and user friendly. Telephone demos can be arranged.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$500 - \$5000

Contact: Dr. Joseph J. DiStefano III, Professor
(213) 825-7482

UNIVERSITY OF CALIFORNIA, LOS ANGELES
School of Engineering and Applied Science
Biocybernetics Laboratory, 4731K Boelter Hall
Los Angeles, CA 90024

PEAK-11/M

Operating System: RSX

Keywords: • Instrumentation • Real time • Scientific

Memory required: 128KW.

This laboratory-oriented application system acquires, processes, and stores data from slow or medium peak-producing instruments, such as gas chromatographs, liquid chromatographs, and auto analyzers. PEAK-11/M can also reprocess previously required raw data. DECUS number 11-SP-9.

Note: No source is available for the GEN file.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

PLACES (Pathology Lexicon, Acquisition, Correlation, and Evaluation System)

Operating System: RSX

Keywords: • Medical • Menu handlers • Pharmaceutical
• Report writer

PLACES provides a flexible mechanism for the direct entry of pathology data to an on-line computer system and for producing the reports required by regulatory authorities in preclinical safety evaluation studies. A key feature of the system is that it treats the recording and reporting aspects of pathology as two separate activities. During the recording process, a flexible menu-selection scheme allows the pathologist to record exactly what he or she wishes to record. The reporting sequence then allows the pathologist to rationalize findings in an iterative fashion, leading to the production of the most satisfactory incidence tables with no transcription — and with a full audit trail of the operations performed.

PLACES operates as a stand-alone software package but may also be interfaced to other packages, such as toxicology systems, for protocol and status information. The package includes a configuring utility that enables the customer to set up numbering schemes and so on; the table-driven system allows the customer to tailor the system without modifying the software.

PLACES systems are installed in agrochemical, pharmaceutical, and contract toxicology laboratories in Europe and in the United States.

A version of this product is available for the VAX computer.

Price: £25,000 – £55,000

Contact: Dr. D. A. James
(0782) 620519

APOLOCO LTD.

90 King Street

Newcastle-Under-Lyme, Staffordshire ST5 1JB
England

QBLIB (CAMAC Subroutine Library)

Operating System: CTS-300, RT-11

Keywords: • Instrumentation • Nuclear • Process control
• Real time

QBLIB is a set of FORTRAN-callable subroutines and assembly language macros for accessing elements of the standardized instrumentation interface system CAMAC (ANSI/IEEE Standard 583-1982, IEC-516) from Interface Standards' QB Series of Q-BUS-to-CAMAC interfaces. Conforming to the recommendations of ANSI/IEEE Standard 758-1979 (IEC-713), "Subroutines for CAMAC," the subroutine calls include single- and multiple-cycle modes as well as extensive support for interrupt handling. Those routines in effect make the controller "invisible" and allow an application program to talk directly to the CAMAC instrumentation modules.

QBLIB includes a set of macros to make the same facilities available to the assembly language programmer. Those macros generate fast, efficient in-line code for accessing CAMAC modules.

QBLIB is available in Europe through Borer Electronics AG, Postfach 148, CH-4501, Solothurn, Switzerland.

Price: \$1000

Contact: Joe Booth
(415) 657-5100

INTERFACE STANDARDS, INC.

45845-A Warm Springs Boulevard
Fremont, CA 94539

RDE (Research Data Entry)TM

Operating System: RSX

Keywords: • Data entry • Forms management • Scientific

RDE, developed by Bolt Beranek and Newman, Inc., provides capabilities for the design and creation of forms for review, modification, or reporting and the preparation of formatted output. The system features data entry, data retrieval, and audit trail of data modifications and compatibility with other BBN research systems, as well as with other PDP-11-based systems requiring forms-oriented data entry.

Features include:

- Data entry — Data is keyed directly into fields in forms presented on a CRT screen. RDE can check for number ranges, type of value, and menus of values during data input and can provide default values and sequential numbers for data fields.
- Audit trail — Data in RDE forms cannot be deleted. When values are changed, the original values are preserved with information about who made the changes, when, and why.
- Forms design — The user can produce RDE forms to match particular data entry needs by creating a text image of the form as it will appear on the screen and adding information about the data fields.
- Report design — RDE can prepare reports and displays of selected data in the format desired.
- Instrument data entry — Data from laboratory instruments can also be inserted into RDE forms.

DIGITAL distributes this software product under license from Bolt Beranek and Newman, Inc., One Alewife Place, Cambridge, MA 02140.

Refer to SPD #A0.13.02 when requesting further information on this product from your local DIGITAL sales office.

RDE (Research Data Entry)[™] is a trademark of Bolt Beranek and Newman, Inc.

A version of this product is available for the VAX computer.

Price: \$4000

Contact: Consult your local DIGITAL sales office (see Introduction).

RS/1 (The Research System)[™]

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Data base management • Data conversion
• Graphics • Statistics

RS/1, developed by Bolt Beranek and Newman, Inc., is a generalized data management system that handles the information needs of the research scientist. RS/1 data management features provide data storage and retrieval, data transformation and analysis, graphics, statistical analysis, curve fitting, and analytical models. Users can extend capabilities and tailor the system through a PL1-like structured programming language that is integrated into the data management

features. RS/1 can interface to data-gathering systems, data base management systems, and other statistics packages. RS/1 capabilities are accessed through a command language that integrates the system's data management, data analysis, and graphics functions.

DIGITAL distributes this software product under license from Bolt Beranek and Newman, Inc., One Alewife Place, Cambridge, MA 02140.

Refer to SPD #A0.14.02 when requesting further information on this product from your local DIGITAL sales office.

RS/1 (The Research System)™ is a trademark of Bolt Beranek and Newman, Inc.

A version of this product is available for the VAX computer.

Price: \$13,400 – \$32,500

Contact: Consult your local DIGITAL sales office (see Introduction).

RUNREF

Operating System: ULTRIX-11

Keywords: • Documentation • Medical • Scientific
• Text management

RUNREF, a reference formatting and retrieval program for scientific manuscripts, retrieves citations from a data base, inserts appropriate numbers in text, and produces bibliographies in the punctuation style appropriate for a variety of medical and scientific journals. The programs are written in C.

Citation material is placed in a data base format that allows retrieval by keyword, phrase, author, year, and so on. Citations are given identifying numbers, which may be used in the production of text. The text-formatting program uses the text and data base to then format the text and bibliography. The text will include, for example, superscripted numbers in citation or alphabetical order, according to the bibliographic style required by the publisher or granting agency. Authors' names and year of publication may appear within the text, if desired. Alphabetic or numeric-order listings of the cited bibliographic material are produced in the "references" section in any one of 27 available punctuation styles. Error checking for incorrect input and a 25-page user's guide are available.

The lower price includes documentation for a single user. The higher price is for an annual licensing fee for a multiuser system with automatic updates.

A version of this product is available for the VAX computer.

Price: \$200 - \$500

Contact: B. Todd Troost, M.D.
(216) 444-3190

DAYSTROM SYSTEMS, INC.
11206 Euclid Avenue, Suite 308
Cleveland, OH 44106

S531A/S631A ABACOS II

Operating System: RSX

Keywords: • Instrumentation • Nuclear • Quality control
• Scientific

The capability and versatility of the three whole-body counting systems — ACCUSCAN, FASTSCAN, and the 2230 (chair) — lie in this application software. ABACOS II, the body-burden analysis software, represents a high level of sophistication for sodium iodide and germanium detector spectra. ABACOS II can quantify up to 30 isotopes in the background-level spectra. ABACOS II is written in FORTRAN IV, allowing it to be easily upgraded as new analysis algorithms are developed or modified for special applications.

Large 4 x 4 x 16 detectors are used. Sensitivities of three nanocuries and better have been obtained for 1-minute counts. Routines for complete body-burden and dose calculations are included.

Although the three units are generally stand alone, ABACOS II can be integrated to an existing computer system with the proper configuration.

A version of this product is available for the VAX computer.

Price: \$10,000 - \$19,000

Contact: Mark Biron
(203) 238-2351

CANBERRA INDUSTRIES, INC.
One State Street
Meriden, CT 06450

SDP-PLUS (Structure Determination Package)

Operating System: RSX

Keywords: • Biology • Chemical • Scientific
• Structural engineering

The Enraf-Nonius Structure Determination Package (SDP) solves and refines molecular/crystal structures. The package runs on different models of DIGITAL PDP-11-series computers with a variety of peripherals. The SDP package is written in FORTRAN IV and runs under RSX-11M or RSX-11M-PLUS. A FORTRAN IV-PLUS version also exists. A minimum of 32KW of user memory and floating-point hardware are prerequisites.

The SDP package includes data reduction, absorption correction, phase determination, Fourier calculation, least-squares refinement, calculation of esds, mapping, plotting, and program listing.

A version of this product is available for the VAX computer.

Price: \$3500

Contact: Dr. Frank van Meurs

31.15.569230 ext. 151

B.V. ENRAF-NONIUS DELFT

Postbus 483

2600 Al Delft

The Netherlands

SPON (Spontaneous Activity of Neuronal Spikes)

Operating System: RT-11

Keywords: • Mapping • Mathematics • Medical

Memory required: 64K.

This group of programs is designed to count interspike intervals (ISI) of extracellular neuronal spikes. The user must have a window discriminator to count spikes, as well as a DIN and CLK unit on the MINC. SPON determines mean ISI and variances of the mean ISI, stores all ISIs, and plots frequency histograms of the ISIs. DECUS number 11-555.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

TEAMS®-TOX

Operating System: RT-11

Keywords: • Data collection • Medical • Pharmaceutical
• Scientific

This integrated package of computer software aids in gathering, managing, archiving, and reporting data about laboratory animals. The system is implemented in BASIC and operates on 64K single-user PDP computers, including fully distributed PDP-11/03 (LSI)-based workstation systems, as well as large, centralized PDP-11 systems. The software is compatible with RT-11/TSX operating systems.

Data may be collected on free-standing workstation units in the laboratory. A "simultaneous journaling" option permits on-site generation of hard-copy laboratory records. Data can be transferred back to a host computer at predetermined intervals for integration into the central data base. The system was specifically designed to provide the audit trails required by FDA guidelines.

This extremely flexible, user-friendly system is both menu driven and "protocol driven." Data collection formats for new studies can be set up (protocol compiled) interactively without reprogramming. Branching logic within the system provides the ability to go to specific questions, based on the response to the current question.

TEAMS-TOX has a monitoring report-generating facility that allows one to tailor interim reports to the user's needs. The system also allows one to unload the data file for use with statistical analysis programs such as SPSS, BMDP, and SAS.

This application package allows other programs to be run while TEAMS-TOX is being used. Thus, TEAMS-TOX can fit very well into a multiuser, multiprogramming environment on the host computer.

Price: \$30,000

Contact: Floyd E. Leaders, Jr., Ph.D.
(214) 386-5764

TECHNICAL EVALUATION AND MANAGEMENT
SERVICES, INC.

13601 Preston Road, 820 Carillon Tower West
Dallas, TX 75240

The first of these is the fact that the
 government has been unable to raise
 the necessary funds to carry out its
 policy of non-interference in the
 internal affairs of the country.

The second is the fact that the
 government has been unable to
 maintain a stable currency and
 to control inflation.

The third is the fact that the
 government has been unable to
 maintain a stable political situation
 and to control the military.

The fourth is the fact that the
 government has been unable to
 maintain a stable economic situation
 and to control the market.

The fifth is the fact that the
 government has been unable to
 maintain a stable social situation
 and to control the population.

The sixth is the fact that the
 government has been unable to
 maintain a stable cultural situation
 and to control the arts.

The seventh is the fact that the
 government has been unable to
 maintain a stable religious situation
 and to control the faith.

The eighth is the fact that the
 government has been unable to
 maintain a stable moral situation
 and to control the ethics.

The ninth is the fact that the
 government has been unable to
 maintain a stable intellectual situation
 and to control the knowledge.

The tenth is the fact that the
 government has been unable to
 maintain a stable spiritual situation
 and to control the soul.

The eleventh is the fact that the
 government has been unable to
 maintain a stable physical situation
 and to control the body.

The twelfth is the fact that the
 government has been unable to
 maintain a stable emotional situation
 and to control the feelings.

The thirteenth is the fact that the
 government has been unable to
 maintain a stable mental situation
 and to control the mind.

The fourteenth is the fact that the
 government has been unable to
 maintain a stable physical situation
 and to control the body.

Retail



Black Star Publishing Company/Bill Aron

Automated Collection Management

Operating System: RSX

Keywords: • Banking • Credit

This software automates the collection of delinquent accounts. The system determines when an account is put into collection, schedules accounts for collector activity, automates dunning letters to customers, and removes accounts from collection when cured.

The system is parameterized for easy user modification. The system is intended for major retailers or banks.

Price: \$100,000 – \$200,000

Contact: Steven Karpen, Systems Director
(617) 568-1411

AFI/DATATROL

Brent Drive

Hudson, MA 01749

BARR (Billing and Accounts Receivable for Retailers)

Operating System: CTS-300, RSX, RT-11

Keywords: • Accounts receivable • Billing

This balance-forward system is designed to help a retail business conduct accounts receivable functions. Data entry may be either through a CRT or by an optional communication module that polls local and remote POS terminals. In addition to generating aged statements and other aged accounts receivable listings, the system provides for on-line inquiry into customer accounts, maintains sales history by customer, and produces delinquent-account reports and notices. A mailing label option is also available.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: John T. Rasted
(203) 265-2226

SOFTWARE DYNAMICS, INC.

1000 Yale Avenue, P.O. Box 500

Wallingford, CT 06492

Clothier

Operating System: CTS-300, RT-11

Keywords: • Financial analysis • Point of sale • Purchasing

This complete system for the medium-sized clothing retailer keeps track of the purchasing and merchandising of clothing by style, color, size, vendor, and branch location for optimum stock reporting. Each item is identified by a 9-digit SKU number, description, size table number, season cycle, reorder Y or N, reorder cost, net cost, retail price, ticket price, and so on.

A version of this product is available for the VAX computer.

Price: \$3000 - \$10,000

Contact: Nigel Harris
(613) 829-8888

HARRIS COMPUTER SYSTEMS
16 Credit Union Way
Nepean, Ontario K2H 8R6
Canada

Credit Authorization

Operating System: RSX

Keywords: • Credit • Point of sale

Full, positive on-line credit authorization for a retailer's in-house credit card is provided. A link on line to third-party authorization systems (MC, AE, and so on) is optional. The system is interfaced to major vendor point-of-sale systems.

Price: \$100,000 - \$200,000

Contact: Steven Karpen, Systems Director
(617) 568-1411

AFI/DATATROL
Brent Drive
Hudson, MA 01749

DTS-11

Operating System: CTS-300, RSX, RT-11

Keywords: • Communications • Telecommunications

DTS-11 is a Binary Synchronous Communications (BSC) package providing telecommunications with Data Terminal Systems Series 500 electronic cash registers. DTS-11 uses a 3780-type protocol for transmitting and receiving data between the host and cash register(s). The package supports both host and store IDs for security purposes. DTS-11 operates at a line speed of 2400 baud, using Bell System 201 or equivalent modems and also operates in a local mode, using a modem eliminator.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: John T. Rasted
(203) 265-2226

SOFTWARE DYNAMICS, INC.
1000 Yale Avenue, P.O. Box 500
Wallingford, CT 06492

ICAS 1123-Plus (Inventory Control Accounting System)

Operating System: RSX

Keywords: • Accounting • Inventory • Point of sale
• Warehousing

This menu-driven point-of-sale invoicing package for part suppliers and inventory-intense retail establishments is structured for easy user access, with submenus for inventory control, sales, accounting, management reports, and system utilities.

- Inventory control features parts and vendor maintenance, inventory reports, supersessions, alternates, automatic ordering, and popularity pricing.
- Point-of-sale invoicing and pick lists are featured in the sales submenu.
- Accounting includes accounts receivable, accounts payable, payroll, and general ledger.
- Management reports include cost and sales analysis as well as core, audit, pick list, and sales reporting.
- Multistore networking is featured.

A version of this product is available for the VAX computer.

Price: \$10,000

Contact: Jeff Bauman

(201) 729-3197

ICAS COMPUTER SYSTEMS, INC.

160 Woodport Road

Sparta, NJ 07871

IDW-5

Operating System: RSTS

Keywords: • Accounting • Distribution • Inventory
• Wholesale

The IDW-5 package provides order entry, inventory control, accounts receivable, accounts payable, purchasing, and payroll — all integrated to a sophisticated general ledger. Those packages have been installed in a variety of industries, including tire, office supply equipment, automotive, lawn and garden, and food. The unique table-driven software can be tailored and enhanced for applications in the wholesale or the retail field. The IDW-5 package is fully supported in Canada.

A version of this product is available for the VAX computer.

Price: \$100,000

Contact: Ed Katz

(602) 897-9576

SYSTEMS BY MICA, INC.

6101 S. Rural Road, Suite 101

Tempe, AZ 85283

IN-TOUCH™

Operating System: RSTS

Keywords: • Distribution • Inventory • Point of sale
• Wholesale

Distribution media: 800/1600 bpi magnetic tape, RK07, RL01, RL02.

This full retail entry/control system at cashier point of sale is flexible enough to match the most imaginative merchandising techniques. The system provides variable pricing for each quantity or customer code and a suggested order quantity report based on movement history as well as trend and user-defined seasonal factors. Modules have access security and data security through a management-maintained table of passwords, allowing accounting control and definition of responsibility. A user needs minimal training to learn the system, which allows for preentry of promotional prices with starting and ending dates, has provisions for statistical analysis of inventory adjustments and analysis, and produces a salesperson productivity report. Approval is required for charges beyond credit limit, for merchandise returns and credit memos, and for price override at point of sale.

The system provides daily back-office reporting of charges beyond limit, merchandise returns, and price overrides; charge account agings at call; inventory quantity and inventory lead-time warning reports; gross-profit reporting; sales dollars, turnover, and item movement reporting with charge account controls; on-line master file maintenance; single or multistore capabilities with single or multiple cashiers; multiterminal access; screen-formatted entry; selective reporting; interactive HELP on call; and customer, vendor, and product listings. A standard item code can allow tracking an item to a location in sales or warehouse areas; the transfer of inventory between stores is controlled; and spiff, PM, and so on, information is captured at point of sale from information in the product master file.

A version of this product is available for the VAX computer.

Price: \$25,000 - \$80,000

Contact: Nathan I. Lieberman

(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.

1010 S. Weinbach Avenue, P.O. Box 2469

Evansville, IN 47714

INV (Inventory)

Operating System: RSTS

Keywords: • Inventory • Purchasing • Warehousing

INV satisfies all requirements of a warehousing and retail application. Each stock item record retains data for quantities, purchasing and sales history, and costing and descriptive information, in addition to extra fields for custom requirements.

The purchasing system is a recommended no-cost optional function that maintains the ordering and receipt of the inventory items. The purchase order system is used to initiate the ordering of goods through an established supplier file. Orders may be updated, added to, or canceled with automatic purging when the order quantity is attained. Reports include an outstanding P.O. report and a screen inquiry.

The relief of the inventory through sales can be maintained through invoice document entry or through use of an order entry application (Data Key ORD). Branch stock transfers can also be handled, with all necessary journal entries to the general ledger being done automatically.

Reporting and inquiry include stock status, price lists, min/max exception, and count sheets. Integration to other applicable Data Key applications is standard.

Price: \$3500

Contact: Marvin Gogal, Branch Manager
(403) 464-7121

DATA KEY LTD.

2107-87 Avenue

Edmonton, Alberta T6P 1L5

Canada

MAILHOUSE™

Operating System: RSTS

Keywords: • Billing • Distribution • Inventory
• Order entry

Distribution media: 9-track 800/1600 bpi magnetic tape, RK07, RL01, RL02.

MAILHOUSE is completely interactive and gives a business the flexibility to properly track and maintain an invoice from the time an order is received from a customer until shipment is complete. Inventory levels are automatically maintained on line during invoice entry. Items are placed on back order if invoice entry indicates that an adequate inventory does not exist to fulfill an order. In cases of

phoned-in orders, the sales tax and UPS or parcel post charges are automatically included in the amount while the customer is still on the line.

Once an invoice is entered, the operator must obtain approval for credit on those invoices selected by MAILHOUSE as ready for shipment. The order will be held until credit clearance is given.

Back-ordered invoices are automatically checked each day to determine the availability of inventory for items. The results are a cross-reference report that gives the operator knowledge of the invoices the system has on hold. MAILHOUSE includes an invoice editor designed to minimize operator problems by simulating invoice entry.

In addition to invoicing, MAILHOUSE allows a business to keep track of sales, cost of sales, taxes, inventory levels, gross profit, and movement. To comply with FTC regulations, a day-counter and a notifier for each invoice are included.

A version of this product is available for the VAX computer.

Price: \$25,000 - \$30,000

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

Point of Sale

Operating System: RSTS

Keywords: • Financial analysis • Inventory • Point of sale
• Purchasing

This system is fully operational in multiple checkout situations. The special terminal supports laser scanner, credit card reader, overprinting, and so on. Full cash control and invoice production are provided even if the processor fails. The unit operates stand alone.

The cost for each checkout is around \$3000, and multiple checkouts for each processor keep total costs for each checkout under \$6000.

A version of this product is available for the VAX computer.

Price: \$3000 - \$100,000

Contact: Dr. E. A. Haworth
(061) 248-7100

MANCOS COMPUTERS
3 Wynnstay Grove, Fallowfield
Manchester M14 6XG
United Kingdom

POS/MIMS (Point-of-Sale System for Lumber Yards/Home Centers)

Operating System: CTS-300, RSTS

Keywords: • Accounts receivable • Inventory • Order entry
• Point of sale

POS/MIMS is a complete set of computer programs designed specifically for lumber and building material dealers. POS/MIMS is a computerized point-of-sale billing, accounts receivable, and inventory control system.

Price: \$34,000 – \$260,000

Contact: Pete McConnell
(412) 823-7440

MCS INC.

400 Penn Center Boulevard
Pittsburgh, PA 15235

Retail Furniture System

Operating System: RSTS

Keywords: • Accounts receivable • Inventory • Order entry
• Point of sale

Distribution media: 9-track 800/1600 bpi magnetic tape, RK07, RL01, RL02.

This integrated order entry, accounts receivable, and inventory management system helps firms control the retail process. The system concentrates on the accounting of sales and inventory and incorporates the management control tools to minimize costs and maintain a fair return on investment. Retail Furniture System identifies each piece in inventory and will identify its location at call. The system also reports the need to fill a location on the display floor due to merchandise sales.

Operated in a conversational, interactive mode, Retail Furniture System performs extensive edit checking, thereby ensuring the integrity of the data. At the point of sale, a receipt is printed, and inventory and accounts receivable are automatically updated. The inventory-received entry function immediately updates inventory and causes inventory tags to be printed. Through that function, special-order and sold items are tagged and flagged. Available as options to the Retail Furniture System are EDPC's ABLE® general ledger and management reporting system, AIM™ (Affordable Information Management) payables, AIM payroll, and other complementary systems.

A version of this product is available for the VAX computer.

Price: \$29,000 - \$80,000

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.

1010 S. Weinbach Avenue, P.O. Box 2469

Evansville, IN 47714

Retail Inventory and Receivables

Operating System: RSTS

Keywords: • Accounting • Inventory • Point of sale

This easy-to-operate system provides an accurate reporting and management analysis tool. Unproductive items are automatically recognized and eliminated. One easy entry at the point of sale updates inventory, receivables, and general ledger.

Features include inventory tracking with interaction to accounts receivable at point of sale; stock-status reports that indicate items above or below the desired inventory levels; sales reports by item, location, and salesperson; automatic production of invoices and/or balance-forward statements; production of aged trial balance; automatic calculation of finance charges; automatic interface to general ledger, payroll, and accounts payable and receivable systems; automatic production of accounts payable and payroll checks; production of inventory sales tags with retail price; and interaction with the word processing system for personalized customer letters and mailings.

A version of this product is available for the VAX computer.

Price: \$1500 - \$20,000

Contact: William R. Paschal, Jr.
(405) 843-7323

DATATEK CORP.

818 N.W. 63rd

Oklahoma City, OK 73116

RIMS (Retail Inventory Management System)

Operating System: CTS-300, RSX, RT-11

Keywords: • Inventory • Purchasing • Sales analysis

This system for tracking inventory at both SKU and class levels provides detailed inventory and sales analysis information for multiple locations on a daily, monthly, and year-to-date basis. The package also includes a purchase order tracking module for generating open-to-buy reports. Input into the system may be either by an optional communications module that polls local and remote POS terminals or through CRT entry. Additional optional modules include A/R, A/P, and G/L tailored for the retail business.

A version of this product is available for the VAX computer.

Price: \$8000 - \$23,000

Contact: John T. Rasted
(203) 265-2226

SOFTWARE DYNAMICS, INC.
1000 Yale Avenue, P.O. Box 500
Wallingford, CT 06492

Shelf

Operating System: RSTS

Keywords: • Distribution • Warehousing • Wholesale

Memory required: 8K.

Shelf/floor space productivity analysis allows a retailer or marketing student to analyze the square-foot profitability of product lines. DECUS number 11-212.

Restrictions: Shelf requires 132-column-width paper.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

SpiriTrak™

Operating System: RSX

Keywords: • Inventory • Point of sale • Purchasing
• Sales analysis

Memory required: 256KB. Distribution medium: diskette.

This point-of-sale package, written in FORTRAN, is designed for liquor stores. This software interfaces with Data Terminal Systems 545 electronic cash registers and the DIGITAL MICRO/PDP-11 and Rainbow. The programs contained in the standard package can be divided into eight major areas: inventory item maintenance, cash register communications, standard reports, user reports, purchase orders and receiving, ticket printing, utility file maintenance, and security. The standard package provides the necessary tools for operating and maintaining a complete inventory management system.

Optional modules are available for additional functionality. Some modules require additional hardware for operation.

All programs are password protected and selected from a menu at the user's terminal. Each program produces a printed report of its operation to ensure a proper accounting of activity.

Price: \$14,900 - \$18,060

Contact: William R. Rogers
(716) 631-0610

AMHERST SYSTEMS INC.

1 American Drive
Buffalo, NY 14225

TABS (Total Application for Building Suppliers)

Operating System: RSTS

Keywords: • Construction • Information management
• Point of sale • Wholesale

TABS is a user-friendly software system designed specifically for building material retailers, wholesalers, and home improvement centers. TABS emphasizes inventory control and customer credit and provides the full range of functions and reports. A few highlights are:

- Point-of-sale option for retail establishments; back-office order entry for wholesalers
- Multitasking capability (any application may be run simultaneously with virtually any other application)
- Time-sharing attributes, with file sharing
- Expedient management-by-exception approach to data retrieval
- Menus, prompts, and other interactive aids
- Secure password protection for each branch of menu, with restricted access to the operating system
- Screen scrolling for convenient on-line inventory item and customer search
- User-defined system defaults and other time-saving features
- Screen display of virtually any hard-copy report
- Full audit trails, legality-check network, and data editing

The standard TABS package consists of six fully interfaced, interactive software modules: order entry/inventory, accounts receivable, accounts payable, purchasing, general ledger, and payroll. Each module can also function independently, as well as be interfaced to optional software.

A version of this product is available for the VAX computer.

Price: \$15,000 +

Contact: Hugh MacDonald, Sales Manager
(617) 964-4011

COMPUTER SOFTWARE CONSULTANTS, INC.
200 Boylston Street
Chestnut Hill, MA 02167

VantagePoint

Operating System: RSTS

Keywords: • Accounts receivable • Inventory • Point of sale
• Wholesale

This secure, easy-to-operate system includes complete inventory control and accounts receivable management for wholesale and/or retail businesses. The VantagePoint method of accounts receivable prints daily invoice copies and monthly statements. The system can be integrated with existing manual or computerized accounting systems. Combined with Point-of-Sale, the Inventory Management System automatically updates prices, computes price margins, provides price extensions, generates purchase orders, and provides security.

A version of this product is available for the VAX computer.

Price: \$15,000 - \$30,000

Contact: Katherine Trimm
(602) 886-5563
VANTAGE CO.
6892 Dorado Court
Tucson, AZ 85715

VCC (The Video Outlet Control Center)

Operating System: CTS-300, RT-11

Keywords: • General ledger • Inventory • Recreation
• Sales analysis

This fourth-generation system for automating the home video retail store includes inventory maintenance, daily consolidation, accounting functions, rental reservation, point of sale, and so on. VCC is extremely simple to use; untrained users can be productive within minutes. VCC can create and read barcode labels.

Installing the system requires the entry of rental stock, sale stock levels, and rental customer descriptions. After installation, point-of-sale functions change the inventory status automatically when a sale or rental is made. The inventory status is also affected when the ordered sale stock is received or when the rental stock is returned. A totally integrated general ledger system is included, which automatically generates period balance sheets and statements of profit and loss. The system is designed to increase revenues by capturing all possible charges.

Price: \$3200 - \$8000

Contact: Peter McWha
(613) 820-1517
LOGICAID LTD.
97 Craig Henry Drive
Nepean, Ontario K2G 3S8
Canada

Sales and Marketing



Robert Pyle

AAAMIS (Advertising Agency's Accounting and Management Information System)

Operating System: UNIX* (Version 7)

Keywords: • Accounting • Information management • Media

Designed for advertising agencies, AAAMIS supports all advertising functions. Despite its power, AAAMIS is user friendly, fast, and reliable. Its menu-driven format, numerous prompts and messages, help features, error trapping, and sophisticated data backup and recovery procedures make it simple to use even for those with no prior computer experience. AAAMIS is composed of the media processing, production processing, accounts receivable, general ledger, and accounts payable modules.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$3750 - \$12,000

Contact: Joseph Grillo
(617) 965-5059
BETA PRINCIPLES
203 Beethoven Avenue
Newton, MA 01940

Compucom Client Information System

Operating System: RSTS

Keywords: • Accounting • Information management
• Investments • Real estate

This system allows brokers in any industry to track supply and demand on individual items in various market segments, based on the customer's market position — buy or sell. The system keeps track of names, addresses, contact names, and telephone numbers, as well as other miscellaneous information about the customer. The system can generate reports and mailing lists based on customer characteristics. The system even reminds the broker when it is time to call a customer.

Price: \$10,000 - \$15,000

Contact: Paul Spencer
(404) 452-1090
COMPUCOM, INC.
3404 Oakcliff Road, Suite C-4
Atlanta, GA 30340

Cost Estimating

Operating System: ULTRIX-11, UNIX* (System III, System V)

Keywords: • Calculation aids • Decision support
• Manufacturing

This fully integrated on-line multiuser UNIX*-based cost estimating system prompts the user for information and calculates estimated costs by operation. An estimate confirmation can be printed and held pending customer approval. On receipt of customer order, the order can be compared to the estimate, which can be revised as necessary. The detail from the estimate becomes the starting point of "estimate versus actual" comparison in the Job Costing system. The Cost Estimating system can be integrated with the Job Costing system. Management reports can be produced using the information from the estimating system, such as analysis of open estimates by customer, salesperson, and product type; and comparison of "estimates versus orders" by customer, salesperson, and product type.

Also available are a print key providing hard copy of any screen image through the system printer, true multiuser design for concurrent program use, built-in multicompany/multidivision support, and a user-assigned predefined company/division or user-allowed option to specify company/division. Timely information is assured through the automatic updating of G/L from all modules.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Laurel McDaniel
(312) 332-3242

NEAL NELSON & ASSOCIATES
185 N. Wabash, Suite 1908
Chicago, IL 60601

Customer Response Center®

Operating System: UNIX* (System III, System V, Version 7)

Keywords: • Mailing lists • Order entry

This system supports the marketing activities of small to medium-size marketing departments and enables marketing or customer service personnel to enter, review, and modify information about interactions with customers and prospective customers. Product inquiries, orders, shipments, and warranty service can be handled. Form-letter merge, mailing labels, and special attention reports are also featured.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$2500 - \$10,000

Contact: Vern Pang
(714) 978-1212

INFORMATION MANAGEMENT ASSOCIATES, INC.
1437 W. Palmyra
Orange, CA 92668

Direct Marketing and Mail Order Management System

Operating System: DSM

Keywords: • Data base management • Management
• Presentation aids

This series of modules demonstrates our special expertise in tailoring and designing direct marketing and mail order management systems. We implement direct mail and catalog systems, continuity programs, direct response advertisement, and package inserts.

A customer usually retains us first to produce customized specifications, which are then translated into an operational system.

A version of this product is available for the VAX computer.

Price: \$15,000 - \$100,000 +

Contact: Alexander J. Phillips, President
(201) 256-7633

INTERACTIVE SYSTEMS AND MANAGEMENT CORP.
1500 Cardinal Drive
Little Falls, NJ 07424

DTRO Forecasting System

Operating System: RSTS, RSX

Keywords: • Distribution • Forecasting • Manufacturing
• Sales analysis

This system, written in COBOL, makes forecasts based on the "exponential smoothing" method, a type of weighted averaging, and features:

- Initial forecasts and associated factors created by a program that places them directly on file
- Running the initializing program as a simulation or a test, during which optional graphs and other printed output may be produced, or as a production run to update files
- Periodic updating as new data becomes available
- Special computation for slow-moving, seasonal, and trending items
- Demand filter and tracking signal calculations
- Specifying either full printout or exception output

The approach has been tested on more than 900,000 items in five major firms, with proven accuracy. The Forecasting System is fully documented, with full support available for installation, training, consulting, and customizing.

A version of this product is available for the VAX computer.

Price: \$5000 - \$10,000

Contact: Bill Benton

(415) 861-5454

DTRO SOFTWARE

1229 7th Avenue

San Francisco, CA 94122

Energy Mind

Operating System: CTS-300, RSTS, RT-11

Keywords: • Billing • Energy • Petroleum • Scheduling

Energy Mind was developed to solve the data processing requirements of the petroleum marketer. The flexible, easy-to-use system provides major benefits in the availability of information, in the automation of routine tasks, and in cost savings and improvements. The system centralizes your information yet makes it more available than ever before.

The system will accommodate virtually any marketer. Data stored in the system is available to the user in printed format, as well as on the display screen, through simple requests. The system eliminates the need for a programmer or other technically oriented person.

The system also offers data security, including batch totaling and other checks and balances to ensure data integrity. Following simple procedures results in achieving and maintaining a high level of control over operations.

The Energy Mind system consists of nine major subsystems, each of which is divided into several operational functions. The major subsystems are inquiry, credit and collection, delivery, posting deliveries and A/R transactions, billing, management reporting, custom reporting, and file maintenance. Other available subsystems are service operations, driver analysis, liquid inventory, multilocation inventory (TBA), and satellite delivery.

The user begins by choosing a subsystem from a list displayed on the screen. Then a list of functions for that subsystem will appear on the screen. A screen will be displayed to guide the user through the completion of the function.

Price: \$15,000 - \$25,000

Contact: Earle G. Phillips

(401) 728-0400

ORBIS

174 Armistice Boulevard

Pawtucket, RI 02860

FUTURETECH — Mail Order Processing System

Operating System: RSX

Keywords: • Inventory • Mailing lists • Order entry

This complete processing system for companies in the mail-order industry is written in COBOL 74. The 12-module system provides on-line tracking of orders from original entry through return of goods for refund or exchange. Inventory levels are updated in real time and are committed to orders at the time of entry. Customer credit is checked at order entry and again before shipping goods. Other features are automatic creation and release of back orders, processing of debit and credit memos, automatic calculation of taxes and freight charges, and compliance with all FTC notification requirements. Important features are marketing and merchandising reports and reports for the accounting and finance departments, facilitating growth in order volume without requiring comparable growth in personnel.

Complete implementation support includes technical and user training, system and user documentation, program source code, and a 1-year warranty for all work. Up to three months of installation and training time is included. Thereafter, a choice of maintenance agreements can be arranged.

This system is recommended for companies handling 40,000 to 1 million orders annually. Free demonstrations can be arranged.

A version of this product is available for the VAX computer.

Price: \$25,000 – \$80,000

Contact: Robert J. Gaudet
(617) 893-2270

LESIFCO, INC.
80 Trapelo Road
Waltham, MA 02154

Marketab®

Operating System: ULTRIX-11, UNIX* (System V)

Keywords: • Data collection • Forms management
• Sales analysis • Statistics

Marketab facilitates fast, accurate, and systematic processing of questionnaires and other survey data and is used by the market research industry, advertising agencies, financial institutions, and tabulation service bureaus. Marketab's three principal phases with supporting utilities cover every aspect of the processing of survey data, from the initial editing of raw data, through any required adjustments, to the final tabular printouts.

Marketab can process any data file, including multipunched (column binary) data. Comprehensive editing eliminates inaccuracies. Final tabulations are formatted to meet management requirements. Because tabulating can be done on an in-house basis, security is ensured. The tab system produces table and page numbers, plus a complete table of contents. Survey tabulations from multiple-wave studies may be combined into a single report without retabulation. Market tabulations are formatted for ease of reference.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$40,000 - \$50,000

Contact: Harold Zawadski
(203) 853-7511

MNEMONICS, INC.
280 Connecticut Avenue
Norwalk, CT 06854

Marketing Strategy Simulation for Minicomputers

Operating System: RSTS, RSX

Keywords: • Automotive • Decision support
• Presentation aids • Simulation

Memory required: 16K.

These programs provide a competitive marketing situation for up to five teams (companies) for each industry. Each company makes product, pricing, advertising, distribution, production, and marketing research decisions for three types of automobile. The programs load parameters, receive decisions, update history, determine market shares, and generate financial statements and instructor summaries. The simulation may be run for 20 consecutive quarters. DECUS number 11-425.

Note: Minor modifications may be needed in data file protection schemes.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

MBS-SA (Manus Business Systems — Sales Analysis)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Financial analysis • Management
• Report writer • Sales analysis

The MBS Sales Analysis module provides reports to aid in the evaluation of individual customer, customer groups, territories, salespeople, and product sales activity. Reports on percent profit and profit dollars can be used by management to make decisions about marketing strategies for various product categories.

Used as a management tool, the Sales Analysis module produces information to detect complex sales trends (thus providing a basis for determining competitive activity), to perform market-share analysis, and to improve the efficiency of sales personnel. In addition, product activity information can be obtained by product classification for a specified demand period. Depending on the amount of historical data available on the demand-period increments, the sales analysis information can help reduce inventory levels that increase stock turn-around. A current and prior year-to-date history file is used for producing reports.

The Sales Analysis module captures and accumulates sales history data as a result of invoicing in the MBS Order Processing module. The module also recaps pertinent activity of the MBS Sales Accounting subsystem.

A version of this product is available for the VAX computer.

Price: \$3000 - \$6000

Contact: Gary Vowels

(206) 285-3260

MANUS SERVICES CORP.

1700 Westlake Avenue North

Seattle, WA 98109

NMI Customer Profile Package

Operating System: RSTS, XENIX

Keywords: • Manufacturing • Order entry • Report writer
• Scheduling

Memory required: 256K. Distribution medium: 5¼" diskette.

The NMI Customer Profile Package, written in C and Business BASIC III, is designed for use by manufacturers' sales representative firms. The system uses principal records, salesperson records, and customer records. The principal records section stores basic information about each principal represented by the firm, as well as specific information about commission calculations. The salesperson records section contains sales history and expense figures for each salesperson, as well as commission calculation information. Additionally, each salesperson may schedule his or her own itinerary, using the many call-planning functions included in the package. The customer records section brings the principal and salesperson records together in each customer record. The customer record contains basic information about each customer, open- and closed-order data, a complete

activity chart, and shipping volume history for three years. The Customer Profile Package also offers an extensive menu of system reports.

Price: \$995

Contact: Terri Akers

(215) 822-2407

NORTON-MURPHY INTERNATIONAL, INC.

176 Chalfont Road

Chalfont, PA 18914

Order Entry Processing

Operating System: RSX

Keywords: • Accounting • Distribution • Inventory
• Project management

This sales order processing software for tracking orders, backlog, and sales activity may be operated independently or as part of an integrated package that includes accounts receivable, accounts payable, general ledger, payroll, job cost accounting, and inventory control. The program provides fully interactive processing; table-driven input data specifications, allowing you to decide what data to maintain for each sales order and each line item; table-driven reports with user-specified format and contents; and full integration with accounts receivable so that orders are automatically marked shipped and backlog is automatically reduced when invoicing is done.

A version of this product is available for the VAX computer.

Price: \$4000 +

Contact: Janna McMillan

(617) 275-5810

BREUER & CO.

54 Middlesex Turnpike

Bedford, MA 01730

Order Processing for Mailing List Rental

Operating System: RT-11, TSX-PLUS

Keywords: • Mailing lists • Order entry • Sales analysis
• Wholesale

This program handles brokered (sold directly to end users), whole-sale, and managed lists (purchased directly from the list owner). Orders are entered with purchase order data. The complete order history for the list order is displayed, which provides usage control (managed lists) and the information to omit previous orders on repeated usage of a list. Purchase orders are generated. After invoicing, payables and receivables are posted to standard receivable and payable packages. Reports are generated showing list rental activity

for the list owners by mailing list and by mailer (end user). A purchase order log, an invoicing log, and a sales analysis by list category are also provided.

The program is intended primarily for small to medium-sized companies that rent mailing lists but do not run them off internally. However, source is available, and the package can be modified for larger companies that want to combine the package with their list production.

Price: \$6000 - \$12,000

Contact: Bernard Littman
(213) 222-6670

BERNARD LITTMAN & ASSOCIATES
3889 West Point Drive
Los Angeles, CA 90065

Perspective/700 Sales Analysis

Operating System: RSTS

Keywords: • Accounts receivable • Cost accounting • Credit
• Financial analysis

Perspective/700 Sales Analysis reports highlight the most profitable products, your best customers, and the best sales representatives:

- The Customer Sales Analysis report includes month, year, previous-year comparison, and gross margin.
- The product Class Sales Analysis covers month and year-to-date comparison, unit and gross sales, and gross margin.
- The Salesperson Sales Analysis reports on product class; month, year-to-date, previous year and quota comparison; and gross margin.
- The Sales Territory Recap provides a salesperson summary; product class; month, year-to-date, previous year and quota comparison, and gross margin.
- The Item Sales History shows 12 months of rolling history, unit sales, and sales ranked by sales volume.

A version of this product is available for the VAX computer.

Price: \$2000 - \$5000

Contact: Michael B. Andelman, President
(312) 953-2220

LIOCS CORP.
246 E. Janata Boulevard
Lombard, IL 60148

PROS (Prospect, Letter, and Sales Facility)

Operating System: RSTS

Keywords: • Data base management • Data entry
• Presentation aids • Report writer

This software package includes data entry for letter, prospect, and sales information and data base inquiry and maintenance. PROS also generates personalized letters, customized labels, and comprehensive reports. This package requires the following "SYSGEN" parameters: alphabetic month and a minimum of two pseudokeyboards.

PROS is designed for high efficiency and ease of use for the small business, corporate division, or institution. Using this facility for mailing and storing prospect/customer correspondence greatly enhances sales efficiency.

A version of this product is available for the VAX computer.

Price: \$8000

Contact: Carolyn Clyde
(801) 224-5306

CLYDE DIGITAL SYSTEMS, INC.
1681 West 820 North
Provo, UT 84601

RealWorld™ Sales Analysis

Operating System: RSX, RT-11, ULTRIX-11, UNIX* (Version 7)

Keywords: • Financial analysis • Office systems
• Point of sale • Sales analysis

This system locates areas of increasing or decreasing sales and allows analysis of the components vital to increasing revenues. Data from this system assists in formulating marketing and sales strategies.

The system features sales analysis by customer, customer type, customer sales volume, responsible salesperson, state, item, item category, and item sales volume and also includes password protection.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$795

Contact: Larry Wilber
(603) 798-5700

REALWORLD INC.
Dover Road
Chichester, NH 03263

S/A (Sales Analysis)

Operating System: RSTS

Keywords: • Calculation aids • Financial analysis

This system is closely integrated with Data Key's Accounts Receivable system in that it relies on the A/R sales document entries for its detail. Revenue can be analyzed, using product codes, branch numbers, salesperson numbers, customer numbers, and/or combinations of numbers. The corresponding costs (or units sold) can be maintained so that gross margin calculations can be illustrated on the reports. The option to retain budget data is also provided so that comparisons to the figures can be given with various calculations. For example, reports include an analysis by product or product group, analysis by salesperson by product, and analysis by branch. In addition, a product sales journal lists the revenue detail.

Price: \$2500

Contact: Marvin Gogal, Branch Manager
(403) 464-7121

DATA KEY LTD.
2107-87 Avenue
Edmonton, Alberta T6P 1L5
Canada

Sales Analysis

Operating System: RSTS

Keywords: • Decision support • Financial analysis

This on-line reporting module helps management make informed business decisions and provides customer, salesperson, and product information for current periods, year to date, and defined combination. Full maintenance capability is provided for changing, adding, or deleting pertinent information.

A version of this product is available for the VAX computer.

Price: \$6900 - \$33,500

Contact: Marketing Department
(502) 491-9820 or 1 (800) 626-6268

AMCOR COMPUTER CORP.
1900 Plantside Drive
Louisville, KY 40299

Sales Analysis

Operating System: ULTRIX-11, UNIX* (System III, System V)

Keywords: • Manufacturing • Property management
• Report writer • Sales analysis

This fully integrated on-line multiuser UNIX*-based sales analysis system allows reports to be prepared in either detail or summary form, based on orders, shipments, invoices, or cash receipts. Reports are available by part number, product category, customer, customer type, state, region, zip code, and salesperson. Cross-reference files by customer, vendor, product, account, and document allow most reports to be run without having to sort. Reports prompt for a range of fields, so individuals or groups of customers or products can be printed. Reports can compare actual amount against budgeted amount for sales, orders, cash receipts, and so on. Future orders can be entered, and revenue forecasting reports can be generated. Commissions may be calculated at time of order, invoice, or cash receipt. Calculated commissions may be posted automatically to either A/P or payroll systems, if desired.

Also available are a print key providing hard copy of any screen image through the system printer, true multiuser design for concurrent program use, built-in multicompartment/multidivision support, and user-assigned predefined company/division or user-allowed options to specify company/division. Timely information is assured through the automatic updating of G/L from all modules.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Laurel McDaniel
(312) 332-3242

NEAL NELSON & ASSOCIATES
185 N. Wabash, Suite 1908
Chicago, IL 60601

Sales Prospect Data Base

Operating System: RSTS, RT-11

Keywords: • Data base management • Mailing lists
• Office systems • Telecommunications

This software allows users to make inquiries or to update an on-line data base in a multiuser environment. The data base informs salespersons engaging in telephone sales about any prospect on file.

The data base is indexed by two major keys that allow either key to act as a subkey for the other. Detailed data can be retrieved by matching leading substrings in the clients' names. Data base records consist of string fields so that any type of information can be maintained. One set of fields is interpreted by a mailing label program as a list of sales contacts.

Price: \$2495

Contact: David M. Perlman
(612) 546-2364

D P COMPUTER SYSTEMS
8708 Hopewood Avenue
Minneapolis, MN 55427

SalesMate®

Operating System: UNIX* (System V)

Keywords: • Information management • Networking
• Telecommunications

This integrated system provides timely information for sales/marketing management. The system consists of portable notebook-size and battery-operated microcomputer workstations; user-friendly applications software for following every aspect of the selling process; an automatic dial-up communications network linking the workstations to the home office; and a Sales Information Center minicomputer, which acts as the hub of the network and processes information requested and input by the sales representative.

The system can be rented for \$120 to \$200 a month.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$3000 - \$6000

Contact: Robert F. Warn
(617) 890-1444

ENVOY SYSTEMS CORP.
1432 Main Street
Waltham, MA 02154

SEARCH/PURGE — Mailing List Deduplication Program

Operating System: RSX

Keywords: • Forms management • Information management
• Mailing lists

This BASIC program eliminates duplicates in a premerged and sorted mailing file. Using a unique detection method, the program can identify duplicates without increasing the overkill factor. The input file is sequentially purged of duplicates, resulting in an output file of unique names and a file containing all sets of duplicates. A third output file contains results of the operation, including input count and a matrix summarizing duplicates by "list key."

The format for the input file is flexible, since the user specifies the column locations for name, address, mailing zone (Zip), and list code identifier. Data fields displayed in the report of duplicates are specified in the same manner. The format of the output file of unique names is identical to the input format.

SEARCH/PURGE provides clear, easy-to-follow documentation and operator instruction. The price includes installation assistance, with 30 days of maintenance support.

Depending on mailing activity, savings from the use of SEARCH/PURGE can rapidly pay back the initial investments. For example, eliminating 5% of the duplicates from a 30¢ self-mailer of 100,000 pieces will save \$1500.

A free trial test run can be arranged for a list of up to approximately 50,000 names.

A version of this product is available for the VAX computer.

Price: \$5000 - \$7500

Contact: Robert J. Gaudet
(617) 893-2270

LESIFCO, INC.
80 Trapelo Road
Waltham, MA 02154

STATUS

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Accounting • Forecasting • Sales analysis

This sales tracking and analysis system provides sales call-up, sales follow-up, and call forecasting with word processing interaction. The system responds to inquiries with current information, anticipates and initiates call notices, forecasts future periods, and levels work loads. Sales dates are automatically maintained by customer contact and reason for follow-up. All customer characteristics are captured and updated through a series or customized program. Output includes entries to order entry, invoicing, accounts receivable, pay-roll, and general ledger files and product line, product sales, and commission calculation reports. The system automatically maintains information for promotional mailing, telephone management, word processing, sales reporting, and territory tracking.

STATUS is best suited to sales or marketing organizations or sales departments in small and medium-sized companies.

A version of this product is available for the VAX computer.

904 Sales and Marketing

Price: \$1500 - \$3600

Contact: Michael W. Rohrbach
(617) 235-8830

INTERNATIONAL MARKET RESOURCES, INC.

38 Garden Road
Wellesley Hills, MA 02181

Service Industries



Black Star Publishing Company/Albert Steiner

Abax Rental Management System

Operating System: CTS-300, RSTS, RT-11, TSX-PLUS

Keywords: • Accounts receivable • Inventory • Maintenance
• Point of sale

This system is designed to fully automate a wide variety of rental firms. Consisting of accounts receivable, inventory control, and depreciation (other accounting applications are also available), the system may be used either at the rental counter or strictly in after-the-fact accounting of business activity — or both.

Highlights of the system begin with contract entry, which uses reservations, messages, kits, volume discounts, and customer scanning by name or category. Pricing of both rental and sales items is accomplished through a unique system that allows up to six prices for each inventory item, based on time, quantity used, 1-time charge, or any other pricing unit required. The codes can be selected from an unlimited number built to define specific pricing needs. In addition to contracts, the system provides several useful management and accounting reports.

A version of this product is available for the VAX computer.

Price: \$9500 — \$13,500

Contact: Charles R. McKown, President
(316) 663-5041

ABAX COMPUTER SYSTEMS
P.O. Box 1097
Hutchinson, KS 67504

AMPS (Automatic Menu Preparation System)

Operating System: CTS-300, RT-11

Keywords: • Data collection • Data entry • Forecasting

AMPS performs food usage forecasting for the vending and food service industries. The system maintains menus, predicts requirements, generates ingredient lists, and automatically learns and self-corrects.

Price: \$1000 — \$4000

Contact: Milan R. Dabovich
(617) 227-5405

DATA INTELLIGENCE SYSTEMS CORP.
19 Monsignor O'Brien Highway
Cambridge, MA 02141

COLOR (Color Consultants Information System)

Operating System: RT-11

Keywords: • Decision support • Query facilities
• Sales and marketing

This package consists of self-administered questionnaires plus prompts for a beautician analyzing a client's personality, lifestyle, color preferences, and personal dimensions. The output consists of wardrobe suggestions and beauty recommendations plus descriptive client files for follow-up services. Additional modules include wardrobe inventory, clothing purchase plan, and records of the individual's color palette and textural preferences.

Programs are written in FORTRAN IV. Two double-density RX02 disks are required.

Decision rules can be updated to accommodate changing fashions and to include an individual beautician's personal recommendations.

Price: \$1200 - \$2000

Contact: David Bradwell, Ph.D., President
(415) 479-4980

DAVID BRADWELL AND ASSOCIATES, INC.
Economic Consultants
880 Las Gallinas Avenue
San Rafael, CA 94903

Culinary Operations Information System

Operating System: ULTRIX-11, XENIX

Keywords: • Information management • Inventory
• Warehousing

This software, designed for the multiunit food service operation, provides inventory control over a central purchasing commissary and various outlets in its network. Various food service operations and lounges with many types of food can be accommodated. The system reports by location and by type of business. The reporting period can be defined to the period of operation — one week, one month, one quarter, one year. A user's guide and documentation are included.

A version of this product is available for the VAX computer.

Price: \$6500

Contact: Bob Ginn
(901) 767-3759

INDUSTRY SOFTWARE SALES, INC.
P.O. Box 240804
Memphis, TN 38124

Dispatch

Operating System: CTS-300, RSTS

Keywords: • Information management • Maintenance

This simple-to-operate, menu-driven system handles many of the time-consuming tasks of a field service organization. The system handles service calls from the initial service request through call close-out.

Dispatch allows the dispatcher to retrieve client and machine information, record a service request, and dispatch a field engineer within minutes of taking the call. Additional features include the updating of parts inventory, tracking receivables, and issuing invoices.

Dispatch may be customized to suit a client's needs. Many components of the system are, however, applicable to any service business.

A version of this product is available for the VAX computer.

Price: \$20,000 - \$150,000

Contact: Richard Bowe, Marketing Manager
(603) 898-7000

OMTOOL CORP.

3 Speen Street

Framingham, MA 01701

Grocery Management System

Operating System: RSTS

Keywords: • Distribution • Facilities management
• Inventory • Point of sale

This easy-to-operate, economical, and comprehensive management and analysis system improves profit and reduces overhead expenses. The system consists of seven interactive programs for the grocer.

- The Grocery Inventory System is a simple, easy-to-operate inventory program that allows your staff to post and maintain inventory.
- The Check-Cashing System is an easy-to-operate name and address package that allows your staff to handle your check-cashing data and to retrieve check-cashing information at the check-cashing booth.
- Ad Analysis helps the chain and the independent grocer determine gross profit based on the amount of products sold at given retail prices.
- Cutting Test Analysis determines the best cutting methods and product superiority and sets retail prices that maximize gross profit.
- Balanced Buying maximizes profit and minimizes overbuying, therefore reducing waste and shrinkage. By inputting the estimated sale amount of each retail cut, the program will estimate how many boxes of primal cuts to buy and how to cut them. Reports are based on your cutting tests, starting with the highest percentage margin tests.

- The program for mixing ground beef shows ways to make ground beef, the mix ratio for any lean content, and the cost for each pound for each lean content.
- Boxed Cattle versus Primal Cuts determines the cost effectiveness of buying boxed cattle versus primal cuts.

A version of this product is available for the VAX computer.

Price: \$1500 - \$20,000

Contact: William R. Paschal, Jr.
(405) 843-7323

DATATEK CORP.

818 N.W. 63rd

Oklahoma City, OK 73116

HIMS (Hospitality Information Management System)

Operating System: RSTS

Keywords: • Accounts payable • Cost accounting • Inventory
• Sales analysis

This complete back-office inventory and accounting system is designed for a multilocation food service operation, either with or without a central commissary. HIMS provides for inventory control, tracking food and supply items from initial receiving through any processing, shipment to serving locations, and sale of the final product.

HIMS includes recipe explosion, automatic unit-of-measure conversion, sales analysis, gross profit analysis, picking lists, inventory adjustments, physical inventory variance reporting, and month-end summary. Costing can be done on either a last-cost or weighted-average basis. The HIMS system can be modified to poll POS cash registers.

HIMS uses single entry of documents to reduce paper handling. When an invoice is entered, for example, the inventory quantity is updated, the unit cost of the item is updated, and the invoice is set up for payment.

Optionally available interfaced modules include forecasting, accounts payable, general ledger, payroll, and accounts receivable.

Price: \$7000 - \$12,000

Contact: John E. Charles, Manager of Systems Consulting
(804) 649-0351

GARY, STOSCH, WALLS & CO., CPA'S

700 E. Main Building, Suite 1700

Richmond, VA 23219

Hospitality Management System

Operating System: RSTS, RT-11

Keywords: • Accounting • Information management • Payroll

This system, written in DIBOL, handles integrated reservations, guest accounting, and back-office accounting for the hospitality industry. The system provides security and an audit trail of all information, as well as comprehensive management reports to help manage hotel operations.

The front desk guest accounting features individual and group reservations, guest checkin and checkout, guest and room status, guest history, advance deposits, and package plans. The back-office accounting features accounts payable, a call accounting interface, a point-of-sale interface, hospitality general ledger, city ledger receivables, a night audit, travel agent accounting, hospitality payroll, cashier, and housekeeping.

A version of this product is available for the VAX computer.

Price: \$10,000 - \$25,000

Contact: Gary L. Bennett
(801) 484-4496

COMPUSOLV
391 Ironwood Drive
Salt Lake City, UT 84115

Innkeepers Management System

Operating System: RSX

Keywords: • Accounts receivable • Employment
• Financial analysis • Statistics

This is a complete hotel or condominium front office and back office system. The front office system includes reservations, registration, guest history, cashiering, night audit, marketing analysis, maid management, city ledger, and interfaces for point-of-sale posting machines and HOBIC or telephone call accounting systems.

Optional subsystems are available to perform telephone call accounting without the need for an independent telephone call accounting system and to perform the point-of-sale function without the need for expensive point-of-sale cash registers.

The back office system includes general ledger, accounts payable, payroll, and an optional accounts receivable system for receivables that are not carried on the city ledger.

The condominium features include reservation-fair rotation to ensure that business is spread evenly among all owners, automatic posting to owners' accounts and preparation of owners' statements, and special housekeeping reports that highlight back-to-back occupancy.

Program updates are available over the telephone through computer-to-computer communications.

Price: \$20,000 – \$30,000

Contact: Richard Knox
(805) 255-3552

KNOX DATA
23030 Lyons Avenue
Newhall, CA 91321

Job Shop Management

Operating System: RT-11, TSX-PLUS

Keywords: • Accounting • Inventory • Sales analysis
• Shop floor control

Distribution media: RL02, RX01, RX02.

This package, designed for any business that needs to track inventory, job costs, sales orders, and purchase orders, provides full business-management functions, including accounts receivable, accounts payable, payroll, and general ledger.

When a new order is entered with individual line-item prices, the billing process and job-cost mechanisms are initiated. Budget-to-actual and profit-percentage information is available with detail by cost categories and cost budgets.

When stock transfers are initiated, the necessary inventory is automatically reserved to complete the job. The inventory cost is transferred specifically to each job. An update of inventory levels is automatic, and a record of all inventory transfers is maintained.

Purchase orders are generated either for a specific job or to replenish stock. The accounts payable is directly interfaced with the purchase order system to verify cost and receiving information. Discrepancies between purchase order amounts and invoiced amounts are flagged.

Partial billing is provided, as well as accounts receivable aging. Sales information by salesperson, customer, and product category is available. Commissions due, based on job cost versus sell price, are calculated when payment is received.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Dwight Johnson
(303) 574-8086

PROFESSIONAL COMPUTER SERVICES
2345 N. Academy Boulevard, Suite 209
Colorado Springs, CO 80909

Oil Burner Service/Inventory

Operating System: RSTS

Keywords: • Cost accounting • Inventory • Maintenance
• Petroleum

This application software addresses the most demanding areas of burner service. From the moment the customer calls and a work order is requested, the system can track the progress of that work order until completion, ultimately producing multiline invoices showing (at the user's option) reasons for call, parts used, work done, prices, taxes and amount due, as well as special messages. The parts inventory aspect of the package keeps track of quantity, tracks costs, automatically prices the invoice, and excludes charges for parts and/or labor covered by service contracts. Although the information posted to the system is entered in abbreviated format (defined by the user), the system maintains a complete history of those calls in clear English on each account for several years. Management reports include Profit by Customer, Parts Usage by Mechanic, and Overall Department performance. Automatic cleaning tickets and contract renewals are also accommodated.

A version of this product is available for the VAX computer.

Price: \$10,000 - \$20,000

Contact: Bruce A. Bott, President
(201) 584-4026

ADVANCED DIGITAL DATA, INC.
354 Route 206
Flanders, NJ 07836

PCO (Pest Control Operators Management System)

Operating System: RSX, RT-11

Keywords: • Accounting • Inventory • Sales and marketing
• Scheduling

PCO manages route and service activity, including route master, route planning, service scheduling, route sheets, route billing, service history, and other functions — billing, commissions, sales analysis, accounts receivable, accounts payable, purchasing, inventory control, general ledger, and financial reporting.

Price: \$6000 - \$9000

Contact: Andy Cherry, Marketing
(201) 348-6688

EXTENDED TECHNOLOGIES CORP.
1023 Boulevard East
Weehawken, NJ 07087

RAS (Route Accounting System)

Operating System: CTS-300, RT-11

Keywords: • Inventory • Scheduling

RAS provides route accounting for the vending and food service industries. Scheduling, general business functions, reconciliation inventory control, commission check writing, and so forth are included.

Price: \$4000 - \$20,000

Contact: Milan R. Dabovich
(617) 227-5405

DATA INTELLIGENCE SYSTEMS CORP.
19 Monsignor O'Brien Highway
Cambridge, MA 02141

Travel System 4/11

Operating System: RSTS, RSX

Keywords: • Scheduling • Statistics • Transportation
• Word processing

This on-line reservation and management system serves tour and coach operators and travel companies. The system provides flexible routes and service structuring and allows holiday and tour packages. A running cost for every mile of each coach/tour/holiday package can be generated. Plus, the system allows automatic fare restructuring for off-peak periods and off days. Statistical analysis enables forecasting of peaks and troughs. On-line reservations and space checking covers cancellations and alterations of bookings.

An integrated accounting system, which can produce relevant documentation, features daily analysis, periodic summary requirements, accurate monitoring of transactions, processing of open returns, and close control of accounts receivable.

Word processing, statistical analysis, forecasting, and management/hotel/holiday maintenance systems are also featured.

A version of this product is available for the VAX computer.

Price: \$4500 - \$40,000

Contact: H. B. H. Reporter, Managing Director
021-355 3511 or Telex: 335797 FOURTH G
FOURTH DIMENSION PRODUCTS LTD.
Fourth Dimension Building, 10 King Edward Square
Sutton Coldfield, West Midlands B73 6AP
United Kingdom

Vehicle Cost and PM

Operating System: CTS-300

Keywords: • Automotive • Maintenance • Scheduling

This comprehensive free-standing module of programs informs the user when vehicles are due for scheduled maintenance and captures costs by repair codes and by vehicle. Mileage costs are also calculated by repair code and by vehicle.

The system is centered on four files: Vehicle Master, containing all pertinent information about the vehicle; Repair Master, containing the repair function and the charge category; Preventive Maintenance Master, which determines the repair functions to be performed on the vehicle at coded mileage intervals; and Repair History, which holds cost information by vehicle by repair code.

Maintenance transactions are entered directly on a CRT as repair functions are performed. Those transactions are entered by vehicle and repair category. The transactions include the cost expended, hours expended (if applicable), and the odometer reading when the function was performed. When all maintenance transactions have been entered and balanced, the master files are updated. The Vehicle Master is updated with the cost by category (parts, labor, other) and the current odometer reading. The Preventive Maintenance Master is updated with the odometer reading when the function was done. The repair history is updated with the cost by vehicle by repair category.

A Vehicle Maintenance-Due Report lists the vehicle and the repair function to be performed. The next time that the function should be performed is calculated, based on the mileage at the last repair and the repair interval. The function will be flagged if the odometer reading of the next scheduled repair is less than the current odometer reading.

A History by Vehicle Report shows year-to-date and total-to-date costs and mileage costs by repair code, by vehicle. A summary is printed by repair code, showing cost and cost for each mile. A History by Cost Code Report shows year-to-date and total-to-date cost by vehicle and repair code.

Price: \$1500 - \$2000

Contact: Robert J. Steinis
(203) 378-6010

FOOD DISTRIBUTOR SYSTEMS, INC.
959 Main Street
Stratford, CT 06497

Transportation



Black Star Publishing Company/Greg Sorber

Automotive System

Operating System: RSTS

Keywords: • Accounting • Automotive • Inventory
• Payroll

The Automotive System provides accounts receivable, accounts payable, payroll, general ledger, a purchase order system with guide history, order entry and billing, invoice and picking ticket generation, sales analysis, inventory control and analysis, over-the-counter invoicing capabilities, inventory cross-reference and information lookup, and word and list processing.

A version of this product is available for the VAX computer.

Price: \$2000 - \$20,000

Contact: Andrew Yasenchak

(201) 231-9400

UNITRONIX DATA SYSTEMS, INC.

50 County Line Road

Somerville, NJ 08876

CRAS (Car Rental Agreement System)

Operating System: CTS-300, RT-11

Keywords: • Accounting • Automotive

This system allows daily transactions to be recorded for the initiation and/or completion of a car rental agreement. Breakdowns offered include mileage charges, rental, drop charges, tax, collision, P.A.I., gasoline, and so on. Transactions can be credit card charges or cash.

Transactions interface with the general ledger system, in which only the charged sales interface with the accounts receivable system. Reports include the Summary of Credit Card Charges, Vehicles Out Summary, Master Vehicles Listing, and Bad Accounts List.

The fixed asset system allows the monitoring of long- and short-term lease arrangements. Depreciation is automatically charged out by straight line or declining balance each month to produce a fixed assets report showing the new book value.

A version of this product is available for the VAX computer.

Price: \$5000 - \$10,000

Contact: Nigel Harris

(613) 829-8888

HARRIS COMPUTER SYSTEMS

16 Credit Union Way

Nepean, Ontario K2H 8R6

Canada

EMDA Super Car Rental and Control System

Operating System: RT-11

Keywords: • Accounting • Automotive • Inventory
• Order entry

This modular system for car rental agencies having from 100 to 5000 cars can run with one person entering all information or can be expanded to a completely on-line, real-time system with CRT terminals and slaved printers at each check-out or check-in station. The system provides complete car control; printed customer rental agreements; on-line check-in; dispatch, ready-line, and garage and maintenance controls; reservations; car selection at check-out; and instant status check of the cars. EMDA is a complete system that ends with a daily business report and can then be interfaced to existing accounting systems.

Modules may be purchased separately. For large installations, EMDA runs on multiple MICRO-11s linked in a local area network. For small installations, the system can run on a single MICRO-11.

A version of this product is available for the VAX computer.

Price: \$8000 - \$45,000

Contact: Edwin J. Stevens

(818) 795-5991

EMDA INC.

77 N. Oak Knoll #104

Pasadena, CA 91101

EMIS (Equipment Management Information System)

Operating System: CICS, CTS-300, DSM, IAS, RSTS, RSX

Keywords: • Information management • Inventory
• Maintenance

This comprehensive fleet-management system reports on equipment, inventory, fuel, repairs, finances, preventive maintenance, and shop productivity; identifies vehicles and personnel with good and bad MPG; tracks all the detailed data needed for day-to-day operation; and summarizes key cost and performance items for management.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: John Gorman

(305) 832-3799

INTEC SYSTEMS INC.

400 Australian Avenue

West Palm Beach, FL 33401-9990

FLEET™

Operating System: RSTS

Keywords: • Cost accounting • Financial analysis
• Maintenance

Distribution media: 9-track 800/1600 bpi magnetic tape, RK07, RL01, RL02.

FLEET develops a complete analysis of the operating costs of a fleet of motor vehicles, heavy construction equipment, manufacturing machinery, or other units having either an odometer or an hour meter. The package also issues preventive-maintenance reminders, based on a set of 99 user-defined parameters.

The package accumulates a period's total costs by cost categories and by vendor and simultaneously accumulates the total of the individual cost occurrences by cost categories for each specific unit. Individual fuel, repair, or cost vouchers are entered at random and according to any user-defined frequency or period. An individual unit's accumulated miles or hours can be entered with each cost voucher or once at the end of the period.

For reporting purposes, units can be subdivided into logical groups for closer operating cost comparisons.

A version of this product is available for the VAX computer.

Price: \$4000 - \$7300

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

Flight Watch

Operating System: CTS-300, RSTS, RT-11

Keywords: • Aeronautics/aerospace • Inventory
• Maintenance • Scheduling

Flight Watch is a complete aviation management package for corporate flight departments, fixed-base operators, charter and commercial operators, as well as regional airlines. Flight Watch includes aircraft maintenance; inventory management; a scheduling system for passengers, aircraft, and crew; a charter quote and billing system; departmental financial and operational reports; and a complete set of general accounting packages for FBOs.

The maintenance system features aircraft status and maintenance-due reports, maintenance cards, inspection lists, and a history report of scheduled and unscheduled maintenance. The maintenance system also includes a subassembly and parts transfer system, rotatable parts inventory, and current information on all ADs and SBs.

The scheduling system features automatic trip and crew scheduling, trip tickets and flight log processing, charter quotes, and billing. Management reports include charter trip analysis, audit of trip changes, scheduling status, gar/aro requirements, crew examination requirements, and daily status — crew/aircraft, aircraft utilization, pilot currency, pilot time, and flight history.

A version of this product is available for the VAX computer.

Price: \$14,000 – \$35,000

Contact: Ben D. Farmer, President
(404) 452-7654 or (800) 241-6805
ASCO FLIGHT WATCH, INC.
3066 Mercer University Drive
Atlanta, GA 30341

K-Squared System

Operating System: RSX

Keywords: • Information management • Inventory
• Maintenance

This turnkey computer system is dedicated to the total control of equipment management from parts inventoried to mechanic labor and from vehicle maintenance history to fuel control. The system integrates and maintains all the information from itemized details to broad summary reports and is available to the common carrier, private carrier, utilities, air lines, cities, and municipalities.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$180,000

Contact: Steve Fischer
(609) 924-2500
GELCO MAINTENANCE SYSTEMS
Research Park, 32 Wall Street
Princeton, NJ 08540

RAFT (Revenue Accounting for Truckers)

Operating System: CTS-300, RT-11

Keywords: • Accounting • Cost accounting
• Information management • Payroll

RAFT, developed for the short-haul and long-haul trucking company, consists of the Revenue Accounting (Probilling), Vehicle Equipment Costing and Maintenance, General Ledger and Financial Statements, and Payroll modules.

The Revenue Accounting module uses the probill as entry to the system and updates both receivables and various statistics, including customer history, employee performance, and traffic flow. This module also produces weekly invoices and monthly statements.

920 Transportation

Probills are retained on an open-item basis and are paid either on an individual or a weekly basis. Statistics are also produced for delivery efficiency upon entry of the probill "pink" (delivery copy).

A version of this product is available for the VAX computer.

Price: \$5000 - \$10,000

Contact: Nigel Harris, President
(613) 829-8888

HARRIS COMPUTER SYSTEMS
16 Credit Union Way
Nepean, Ontario K2H 8R6
Canada

TAPS (Transportation Accounting Packages)

Operating System: RSTS

Keywords: • Accounts receivable • Billing • General ledger
• Sales and marketing

Distribution media: 9-track 1600 bpi magnetic tape, RL02.

This system takes care of the accounting functions for the trucking company — from free-form invoicing through state reporting — and includes accounts payable, general ledger, accounts receivable, miles and gallons reporting, owner-operator settlement programs, and sales analysis.

A version of this product is available for the VAX computer.

Price: \$10,000 - \$20,000

Contact: Anthony J. Ruggeri
(314) 644-4050

AUTOMATED INFORMATION INC.
6710 Clayton Road
St. Louis, MO 63117

Transportation/Airline/Airport Management Information System

Operating System: IAS, RSTS, RSX, RT-11

Keywords: • Accounting • Information management
• Service industries • Statistics

Menu driven and modularly designed for sectional add/delete, the airport MIS system provides on-line and over-the-counter sales and billing information for charter, commuter, ramp fuel and services, flying school records, engineering and aircraft maintenance, and hangar and space rental of airport facilities. In addition to all financial data, MIS detail is maintained on all resident information throughout the system and can be reported in any format. Although

designed for the aviation industry, this system has applications in other segments of the transportation sector. MIS interacts fully with the Armadale business system and is programmed in Pascal II.

A version of this product is available for the VAX computer.

Price: \$4500 - \$10,500

Contact: Michael G. Sifton
(416) 477-8000

ARMADALE SYSTEMS INC.
Toronto Buttonville Airport
Markham, Ontario L3P 3J9
Canada

Utilities



Robert V. Eckert Jr./The Picture Cube

Accounts Receivable Status

Operating System: RSTS

Keywords: • Accounts receivable • Billing • Data entry
• Telecommunications

Accounts Receivable Status gives the telephone company a complete on-line file of billing-related information for each customer. The system also allows on-line data entry of new account setups, payments, and completed service order information.

Information filed by the system includes billing name and address, member number, service and equipment, recurring charges, directory listings, credit information, deposit and interest, current month, toll transactions, amount due, last payment date, and 30, 60, and 90 days past-due amounts. All service order-related information for new connects, reconnects, and disconnects is entered as history or is transferred from the Service Order System.

The system allows printing of reminder notices on demand, using the company's own criteria for which customers should receive reminders.

Used with Allied's batch TRA/TOL, Accounts Receivable Status allows the smaller computer system to run on-line data without prohibitive expense. Optional reports from the subscriber master file include mailing labels, name and address, and customer credit card files for the printing of credit cards.

Price: Available upon request

Contact: Paul Jorgensen
(206) 456-3535
ALLIED DATA
P.O. Box 2406
Olympia, WA 98507

BARCS

Operating System: RSTS

Keywords: • Accounts receivable • Billing • General ledger
• Report writer

This system bills and prepares reports. The system generates reports for management, operational, and regulatory purposes, including cost of service studies.

Billing, in six cycles spaced throughout the month, serves approximately 35,000 customers: 15,700 metered customers and 19,300 flat-rate customers. Although residential metered customers are billed monthly, the bills are based on meter readings obtained every other month. Industrial and commercial customers' bills are based on a monthly meter reading. The program can be easily modified for a quarterly billing cycle.

Customer inquiries can be handled quickly and easily. The operator inputs the customer's account number, name, or service address. If the exact name or address is unknown, an approximation permits the operator to scroll through the files to find the correct customer.

Accounts payable, payroll, and general ledger systems have been developed, taking into consideration the unique aspects of a regulated water utility. The accounts payable, payroll, and billing programs are interfaced with the general ledger, eliminating possible errors.

A version of this product is available for the VAX computer.

Price: \$6995 - \$25,000

Contact: Hank Somerall
(717) 569-5733

EASTERN SYSTEMS MANAGEMENT, INC.
1585 Commerce Drive
Lancaster, PA 17601

CMDS (Computerized Mapping and Diagram System)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Electrical • Engineering • Mapping

CMDS meets the special mapping needs and budgetary constraints of small and medium-size utilities and their consultants. The system is adaptable to most geographic bases.

The layers of geography, such as roads, lakes, subdivision, and so on, are selected by the user. The user develops symbols for plotting items, such as road signs, electrical utility lines, protective devices, transformers, poles, switches, and capacitors. The user also selects the scale of each map. Subdivisions can be digitized from original plats and fitted into the base maps. Finally, the user can develop work order drawings, including instructions to crews.

The Distribution Primary Analysis (DPA) data can be created by CMDS and can reside in the mapping data base (only one data base to maintain).

CMDS requires a tablet digitizer and a CalComp-compatible plotter in addition to a computer.

A version of this product is available for the VAX computer.

Price: \$27,500

Contact: Walter G. Scott
(314) 576-7727

SCOTT & SCOTT CONSULTANTS, INC.
1180 Toreador Drive
St. Louis, MO 63141

COMIT (Communications Management Information Tool)

Operating System: RSTS, RSX, RT-11

Keywords: • Cost accounting • Statistics
• Telecommunications

This cost allocation/network and traffic analysis package for telephone systems provides call detail by extension, cost center, department, and company, using the latest AT&T rates. COMIT has extensive network management and traffic statistics capabilities, which include usage reports by area code and exchange, comparison of existing WATS, FX, and DDD to other common carriers — MCI, SPRINT, SBS, and others — to determine the least-cost facilities for placing the calls, and a breakdown of traffic by hour/day/month. COMIT also includes exception reports, such as high-cost/long-durations calls, high-volume call reports to selective numbers, and searches on specific numbers, plus a complete directory service. COMIT can store up to 800,000 call records, depending on the configuration, and can produce complete billing statements as an option. The stand-alone COMIT will work with any telephone system and can also be used under a full service bureau arrangement.

A version of this product is available for the VAX computer.

Price: \$5000 — \$18,000

Contact: Steve Anderson
(616) 949-9360

PROFESSIONAL COMPUTING RESOURCES, INC.
985 Parchment S.E.
Grand Rapids, MI 49506

Customer Service Inquiry System

Operating System: RSTS

Keywords: • Information management • Telecommunications

The system provides fast, easy access to service, equipment, and line assignment information and works with the Accounts Receivable Status system to maintain plant information (versus billing information) for each customer. Initial inquiry can be done by telephone number, service name, service address, equipment assignment number, cable (and optionally pair), added main line (AML) number, and Carrier System (CXR) number and channels.

Six inquiry screens available pertain to service and plant-related information within Customer Service Inquiry. History information from other related systems (Trouble Ticket, Service Order) is available in summary and detail when those systems are used.

Price: Available upon request

Contact: Paul Jorgensen
(206) 456-3535

ALLIED DATA

P.O. Box 2406

Olympia, WA 98507

DPA (Distribution Primary Analysis)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Education • Electrical • Engineering

DPA is an on-line family of interactive programs for the engineering studies associated with planning, designing, and operating electrical distribution systems. DPA features a permanent data base that stores electrical and physical parameters of the system; on-line editing, including on-line switching, that permits the engineer to simulate almost any operating condition; analysis programs that provide voltage levels, unbalanced current flow, line losses, line loading, fault currents, and capacitor placement; single-line diagrams of the feeders that may be plotted from the DPA data base; and DPA options that include a system to extract data, using a tablet digitizer and menu, and the software to plot feeder single lines.

A version of this product is available for the VAX computer.

Price: \$27,500

Contact: Walter G. Scott
(314) 576-7727

SCOTT & SCOTT CONSULTANTS, INC.

1180 Toreador Drive

St. Louis, MO 63141

DTM (Distribution Transformer Management)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Education • Electrical • Engineering

DTM is a family of five on-line interactive programs. The transformer model may be used to simulate almost any banking arrangement, such as line-to-ground single-phase, open wye, open delta, and combination single-phase/three-phase. The analytical model uses the transformer models to determine loading levels, demand losses, energy losses, and loss-of-life probability. The load model simulates a variety of loading cycles and can impose the resultant demand requirements on the analytical model (hourly, daily, weekly, or annual). The energy interface model obtains customers and energy usage by class of service through transformers from customer billing records. The energy interface model then imposes that data on the analytical model. The economic model interfaces with the analytical model to determine present worth of a transformer configuration,

based on costs over its life. Costs used in the model include investment, interest, installation, removal, replacement, demand losses, energy losses, and loss of life.

Utilities use DTM to answer such engineering/economic questions as what sizes and types of transformers should be stocked, how bids should be evaluated, what the best sizes are for a particular installation, what the loads are on existing transformers, and when a transformer should be replaced.

DTM also includes the files and interface software to transmit transformer sizes, customers, energy usage, and spot loads to the Distribution Primary Analysis (DPA) data base.

A version of this product is available for the VAX computer.

Price: \$750

Contact: Walter G. Scott
(314) 576-7727

SCOTT & SCOTT CONSULTANTS, INC.
1180 Toreador Drive
St. Louis, MO 63141

Economic Optimization of Distribution Losses

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Education • Electrical • Engineering

This all-inclusive system models the major components of a distribution system over a selected time frame, such as 10 years; analyzes the components to isolate technical losses (demand and energy); computes the cost of losses, using marginal demand and energy prices; enables the engineer to reduce losses through alternative corrective actions, such as adding capacitors; and economically evaluates the construction and loss costs for the alternatives (annual costs and present worth of annual costs).

This system consists of a load model to derive load and loss duration factors, a station power transformer model, a primary and secondary system model (a special version of DPA), a distribution transformer model, a construct cost model, and economic analyses.

A version of this product is available for the VAX computer.

Price: \$7500

Contact: Walter G. Scott
(314) 576-7727

SCOTT & SCOTT CONSULTANTS, INC.
1180 Toreador Drive
St. Louis, MO 63141

Electrical Contracting**Operating System:** RSTS**Keywords:** • Accounting • Electrical • Service industries
• Word processing

Electrical Contracting provides payroll — certified and joint industry board reports — accounts receivable, accounts payable, a purchase ordering system, a job costing and control system, billing, general ledger, inventory control and analysis, sales analysis, and word and list processing.

A version of this product is available for the VAX computer.

Price: \$2000 — \$20,000**Contact:** Andrew Yasenchak
(201) 231-9400

UNITRONIX DATA SYSTEMS, INC.
50 County Line Road
Somerville, NJ 08876

Electrical Repair and Paging**Operating System:** RSTS**Keywords:** • Accounting • Electrical • Inventory • Payroll

This program provides accounts receivable, a data base of customers, personnel, contract billing, inventory sales and analysis, job scheduling, billing, job ticket repairs analysis, job installations control, quotation handling, department cost and analysis, sales analysis, job costing, word and list processing, accounts payable, general ledger, and payroll.

A version of this product is available for the VAX computer.

Price: \$2000 — \$20,000**Contact:** Andrew Yasenchak
(201) 231-9400

UNITRONIX DATA SYSTEMS, INC.
50 County Line Road
Somerville, NJ 08876

EUBA (Electrical Utility Billing and Accounting)**Operating System:** CTS-300**Keywords:** • Accounting • Electrical • Inventory • Payroll

EUBA is a complete, interactive system designed for electric utility companies. The system includes a comprehensive billing system that encompasses all aspects of producing bills, making adjustments, keeping statistics and history, reporting, and transformer loading. The system also includes general ledger, financial statements, payroll, accounts payable, inventory, a P.O. system, estimating, work order processing, and costing.

The software conforms to AMEU accounting practices and regulations.

A version of this product is available for the VAX computer.

Price: \$16,000 - \$25,000

Contact: Nigel Harris, President
(613) 829-8888

HARRIS COMPUTER SYSTEMS

16 Credit Union Way
Nepean, Ontario K2H 8R6
Canada

General Ledger System

Operating System: RSTS

Keywords: • Financial planning • General ledger
• Telecommunications

This system provides financial statements in a variety of formats for telecommunications and telephone companies. Accounts are established with an account number, account name, and financial statement code that controls the format for profit and loss and balance sheet reports. Budget amounts and prior-year comparisons can be entered. The system can also produce supporting schedules and a source cross-reference.

The General Ledger System can optionally interface with the Payroll, Vehicle Ledger, Accounts Payable, and Work Order systems.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Paul Jorgensen
(206) 456-3535

ALLIED DATA

P.O. Box 2406

Olympia, WA 98507

Long-Distance Resellers Telephone Billing System

Operating System: CTS-300, RT-11, TSX-PLUS

Keywords: • Accounts receivable • Billing • Report writer
• Telecommunications

Distribution media: 1/4" tape cartridge, 9-track 800 bpi magnetic tape, RK06, RK07, RL02.

This complete menu-driven billing system not only provides customer analysis but also prints statements. Total customer control is maintained by using credit limits, tax exemption, finance charge exemption, billing type, customer type, and so on. Individualized access codes are provided for each customer. Record keeping for each area-code exchange and/or region includes number of calls, total time

used, and total cost of time used (both monthly and yearly). The system can automatically generate bank drafts, taxes, finance charges, and any special charges that your company desires. Statements can be printed on preprinted letterhead or statement-generated company headers. Calls can be entered from switching-generated diskettes. (This feature is not available for all types of switching machines but will interface to SMDR.) Region totals, rates breakdown report, customer detail, and other reports can be generated.

Price: \$8000 - \$15,000

Contact: Chuck Trapp, Sales Representative
(701) 235-7799

PROFESSIONAL DATA PROCESSING, INC.
503 Broadway
Fargo, ND 58102

MLF (Microarea Load Forecast)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Electrical • Engineering • Graphics

This family of on-line interactive programs provides a definitive short- and long-range load forecast for planning distribution systems. The forecast is for discrete, small areas, or cells. MLF is based on the socioeconometric parameters that dictate future load levels, such as land use, zoning, population, income, and the correlations between population and commercial/industrial electrical needs.

The user controls the forecast and variables. The variables include the quantity, size, and year of initiation of cells; residential, commercial, industrial, and institutional consumer classification; city center, urban, suburban, and rural zones; the vacancy level in relation to saturation; the population of people for each dwelling; energy factors of kWh/acre by consumer class; and demand factors of kW by consumer class.

MLF includes the software to form the data base through forms and screen-formatted input or by extracting land use from the zoning maps with a tablet digitizer and menu. MLF also includes the software to transfer the forecasted demands and growth rates directly into the Distribution Primary Analysis (DPA) data base for analysis and planning.

MLF can be modified to meet special needs at software consulting rates.

A version of this product is available for the VAX computer.

Price: \$950

Contact: Walter G. Scott
(314) 576-7727

SCOTT & SCOTT CONSULTANTS, INC.
1180 Toreador Drive
St. Louis, MO 63141

Moste System

Operating System: RSTS

Keywords: • Accounting • Billing • Networking
• Telecommunications

This system gives users complete control over their telephone system and its expenses. Controllers and accountants can use the accurate, verifiable reports to allocate telephone expenses back to individuals, departments, or cost centers and divisions. Communications people are given all the necessary tools to configure their telephone systems' PBX, outside lines, and data communications network. The modular design of the system allows the collection of data from any PBX and accommodates users with 100 to 32,000 telephone extensions.

The system also features telephone directory reports and an optional Reseller's module for clients who would like to bill users of their telephone system. Moste's flexibility allows the configuration for multiple telephone systems.

Clients begin with a thorough training class at their installation site and are invited to attend free periodic seminars at our office. Quarterly updates to the Moste System's pricing data bases keep clients up to date with the latest AT&T, Common Carrier (such as MCI and SPRINT), and Bell operating company (such as NYNEX and PACTEL) telephone rates. Communications Analysis will provide custom programming for special situations.

A version of this product is available for the VAX computer.

Price: \$14,000 - \$19,000

Contact: Ray Haarstick
(617) 875-7300

COMMUNICATIONS ANALYSIS CORP.
100 Fountain Street
Framingham, MA 01701

ORS (Outage Reporting and Analysis System)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Electrical • Engineering

This family of on-line interactive programs performs three functions. ORS establishes a data base containing details about all distribution outages, such as location of caller, time (received, off, dispatched, on), dispatched to, device tripped and location, priority (sickness, dairy, and so forth), weather, portion of system affected, cause, and number of consumers (from DPA). ORS prints a summary of outages at any time: month to date, calendar year to date, previous 12 months to date. Finally, ORS creates special printouts on which the user selects the time period (dates), location, and one of the following: cause, device, system, weather. The other variables may be sorted at the discretion of the user.

The Outage Reporting System is used to determine reliability levels, pinpoint areas with high outage rates, locate devices with a high failure rate, determine probable emergency crew needs under various weather conditions, assess efficiency of emergency procedures and personnel, and increase quality of service at lower cost.

This system can access the (DPA) data base to obtain customers out of service and lost energy.

A version of this product is available for the VAX computer.

Price: \$1950

Contact: Walter G. Scott
(314) 576-7727

SCOTT & SCOTT CONSULTANTS, INC.
1180 Toreador Drive
St. Louis, MO 63141

Payroll System

Operating System: RSTS

Keywords: • Employment • Payroll • Telecommunications

This system for telecommunications and telephone companies is designed to automate the payroll process. The system establishes an employee master file, including name, address, hourly or pay-period salary rates, as well as other pertinent information and can also be used to establish accounts based on general ledger codes to expense salaries.

Time sheet data and hours worked can be entered daily, weekly, or monthly. When time sheets are entered, the employee number and expense codes are validated against the master file to ensure accuracy.

The system automatically calculates salary, taxes, FICA, deductions, and sick and vacation pay; updates employee year-to-date totals; and produces payroll checks and payroll reports. The system produces quarterly 941/5208 reports showing quarter-to-date hours and amounts for FICA, federal withholding tax, and State Disability Insurance Liability. At the end of the year, W-2 forms can be printed.

The Payroll System can also be interfaced with the Vehicle Ledger, Work Order, and General Ledger systems.

Price: Available upon request

Contact: Paul Jorgensen
(206) 456-3535
ALLIED DATA
P.O. Box 2406
Olympia, WA 98507

RADWASTE

Operating System: RSX

Keywords: • Inventory • Nuclear • Scheduling
• Warehousing

Distribution media: magnetic tape, RL02.

This FORTRAN program tracks radioactive waste through on-site storage and shipment to the burial site. The user can define the container type, physical form of waste, storage location, activity, and nuclide content and activity. Automatic spectral analysis is permitted through Canberra's SPECTRAN-F or APOGEE programs. Manual nuclide entry is also permitted, as well as file maintenance and editing.

Designed in accordance with 49 CFR 173 and 10 CFR 61, this program generates inventory reports, Reg. Guide 1.21 semiannual reports, and weekly and periodic summary reports. As with all Canberra software, human interfacing has been provided to ensure ease of use and minimal user training.

The program uses the INGRES Relational Data Base management system.

A version of this product is available for the VAX computer.

Price: \$50,000 +

Contact: Robert Loesch
(203) 238-2351 ext. 352
CANBERRA INDUSTRIES, INC.
One State Street
Meriden, CT 06450

REACT

Operating System: RSTS

Keywords: • Accounting • Credit • Electrical
• Information management

REACT is a complete data processing system designed for electric utility companies. The system includes a complete consumer billing system (approximately 500 programs), payroll, general ledger, accounts payable, materials and supplies, and a complete work order system, including maintenance of continuing property records. For rural electric co-ops, the system also includes a complete capital credit system. This software was designed specifically for electric utilities and fully conforms to all REA and DOE accounting standards, as well as to known PURPA regulations.

In addition, the system offers as options a full selection of management information applications, including financial forecasting, vehicle analysis, bad-debt service order management, and a full distribution engineering system that includes transformer load management, voltage-drop calculations, short-circuit analysis, TVA reporting, outage reporting, transportation, utilicorder, and service order management.

A version of this product is available for the VAX computer.

Price: \$35,000 – \$250,000

Contact: H. V. Bonds, Jr.
(803) 799-4094

DIGITAL SYSTEMS, INC.

P.O. Box 12

Columbia, SC 29202

TASCAL

Operating System: RSX

Keywords: • Nuclear • Project management • Scheduling

Distribution media: magnetic tape, RL02.

This useful scheduling tool for managers at nuclear facilities allows list generation for tasks to be executed, overdue tasks, and completed tasks. The design allows for separate files for each department or a general file that contains all the tasks for the facility. Written in FORTRAN and supported by menu-driven techniques and simple user dialog, this program provides a powerful tool for the manager concerned with time management and the scheduling of activities.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Robert Loesch
(203) 238-2351 ext. 352

CANBERRA INDUSTRIES, INC.
One State Street
Meriden, CT 06450

Tele-Track, Tele-Bill

Operating System: ULTRIX-11, UNIX* (Version 7)

Keywords: • Accounting • Billing • Simulation
• Telecommunications

Distribution media: 5¼" diskette, 9-track magnetic tape, cartridge.

The TelAccount telephone accounting and billing systems are UNIX* based and considerate of the user. They enable businesses to allocate telephone expenses accurately and to determine optimum configuration of telephone services. Additionally, a full set of customized reports help users to successfully manage their communications network. Tele-Track reports include both detail and summary reports at company, division, department, and station (extension) levels; a full spectrum of traffic analysis reports, such as trunk utilization by trunk group and destination, busy-period reports in both graph and tabular form; and cities-called reports. A simulation package is available to assist in determining optimum trunk configurations for future growth. The Tele-Bill (resale) accounting application includes automatic client billing and cost control features, along with complete traffic analysis reporting. A project activity report function makes the system a viable alternative for professional service organizations, such as law firms, that require project accounting and billing services.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$3000 +

Contact: Dick Vento, Vice President, Sales and Marketing
(415) 499-8881

TELACCOUNT, INC.
7 Mt. Lassen Drive, Suite A-250
San Rafael, CA 94903

UTIANA-IMPRS Utility Analysis System

Operating System: RSTS, RSX, RT-11

Keywords: • Data base management • Data collection
• Facilities management • Query facilities

This system records up to three years of monthly power, gas, water, and telephone information; summarizes total information by building number and meter number; provides complete on-line inquiring/processing; allows for easy interactive reporting of all files; is completely menu driven; uses security passwords to control access; provides automatic master file backups; and performs extensive on-line editing and balancing.

A version of this product is available for the VAX computer.

Price: \$2500

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544

RUF CORP.

1533 E. Spruce

Olathe, KS 66061

Utility-11

Operating System: CTS-300, RSTS, RT-11

Keywords: • Billing • Maintenance • Report writer

This comprehensive billing and reporting package is designed to provide on-line inquiry into customer information and to provide flexibility in maintenance of utility customer information, water rates, electrical rates, meter readings, and sewer/sanitation rates.

A version of this product is available for the VAX computer.

Price: \$1850 - \$8000

Contact: Ronald R. Kirchhoff, President
(806) 293-4286

KMK ENTERPRISES, INC.

701 Broadway, Suite 204

Plainview, TX 79072-7353

Vehicle Ledger System

Operating System: RSTS

Keywords: • Automotive • General ledger • Maintenance
• Telecommunications

This system for telephone and telecommunications companies provides an automated vehicle and information report that traces operating expenses for company vehicles. Vehicles, expenses, and operators are individually identified. The monthly Vehicle Ledger report reflects total hours and costs and provides detailed information in the form of corresponding hourly dollar values for each period of operation. The report further cross-references general ledger and work order numbers. In addition, the Vehicle Ledger System maintains a master file with hourly rates on each vehicle.

Price: Available upon request

Contact: Paul Jorgensen
(206) 456-3535

ALLIED DATA
P.O. Box 2406
Olympia, WA 98507

Work Order System

Operating System: RSTS

Keywords: • Order entry • Project management
• Telecommunications

This system for telecommunications and telephone companies tracks all costs associated with a project. Overhead control records are established, determining overhead, percentages, range(s) of general ledger accounts, and what clearing account is to be credited when the work order is closed.

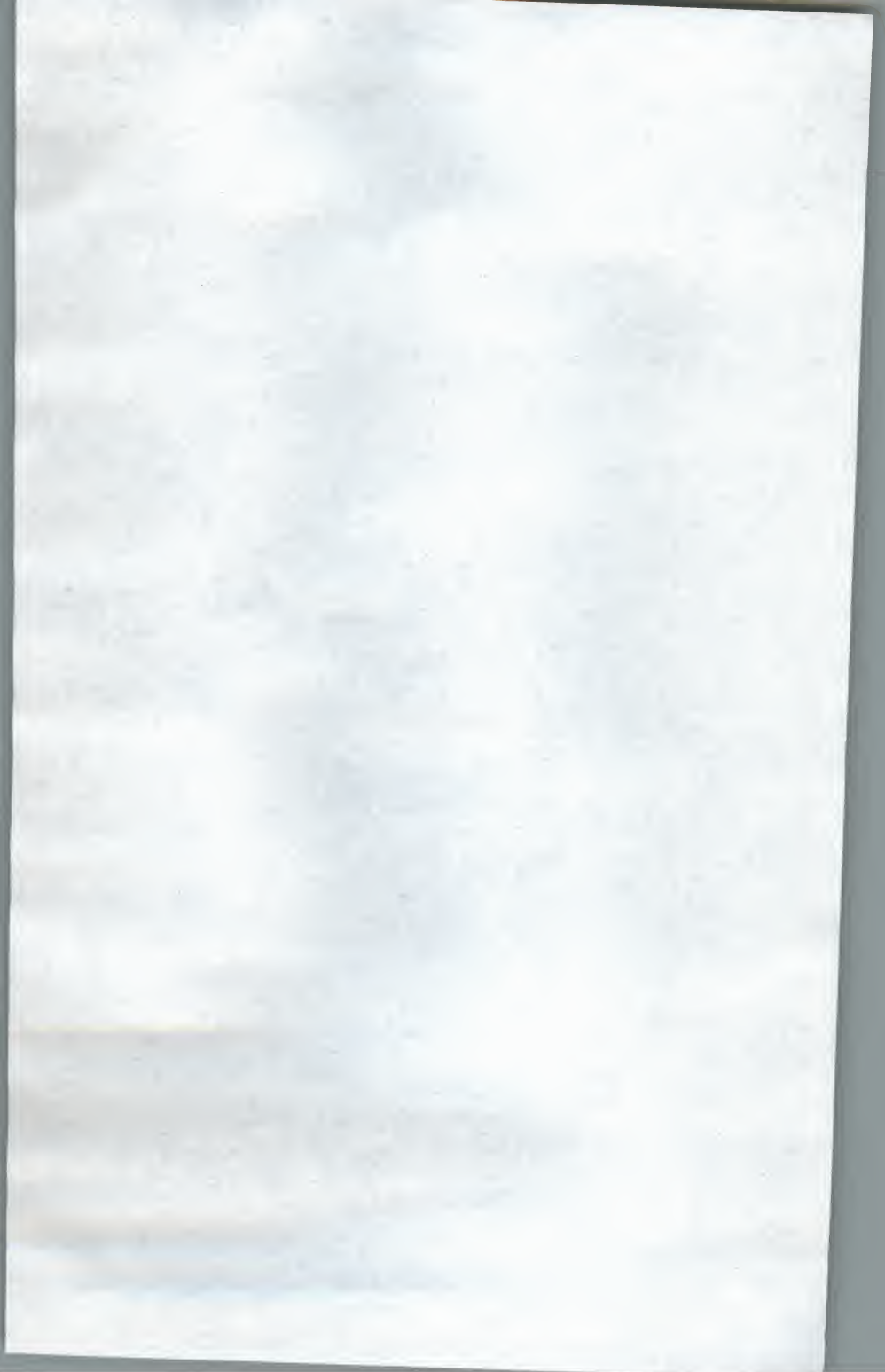
The system segregates charges by inside labor and material, outside labor and material, and overhead. A work order analysis is available that shows current month and project-to-date charges for each work order, segregated by type. The system also allows inquiry on the status of work orders.

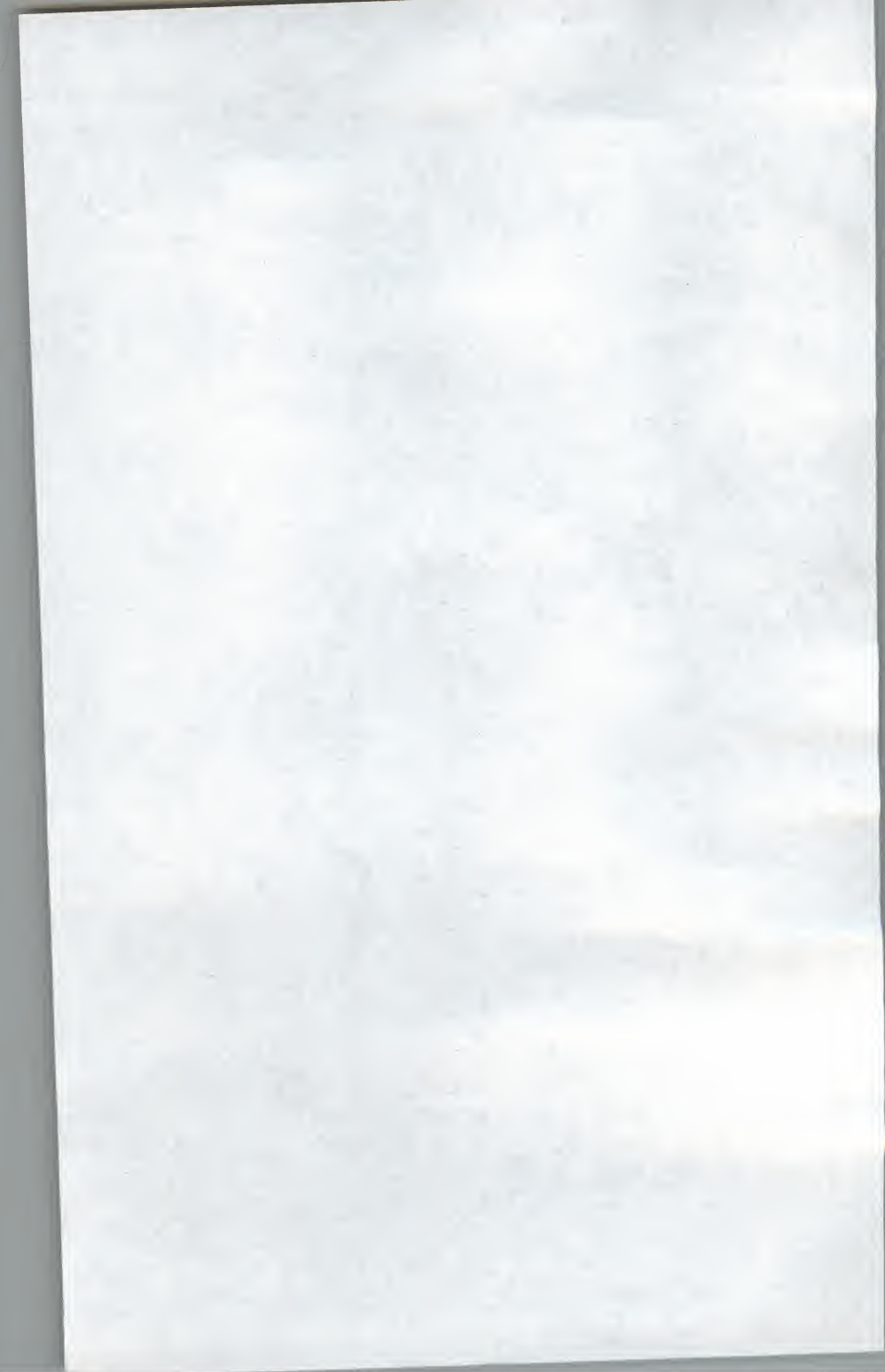
Optional interfaces include the Payroll, Accounts Payable, Vehicle Ledger, and General Ledger systems.

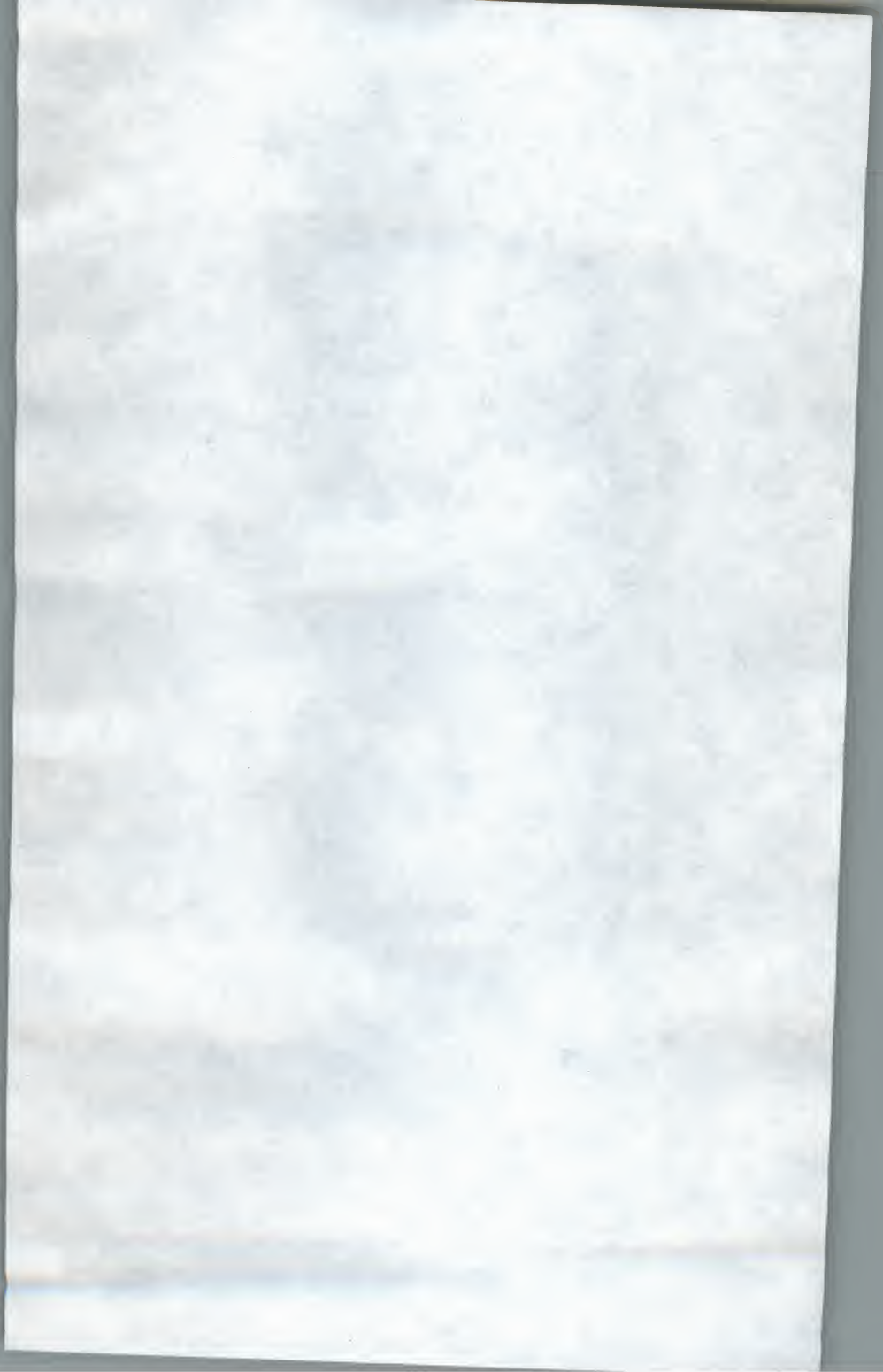
Price: Available upon request

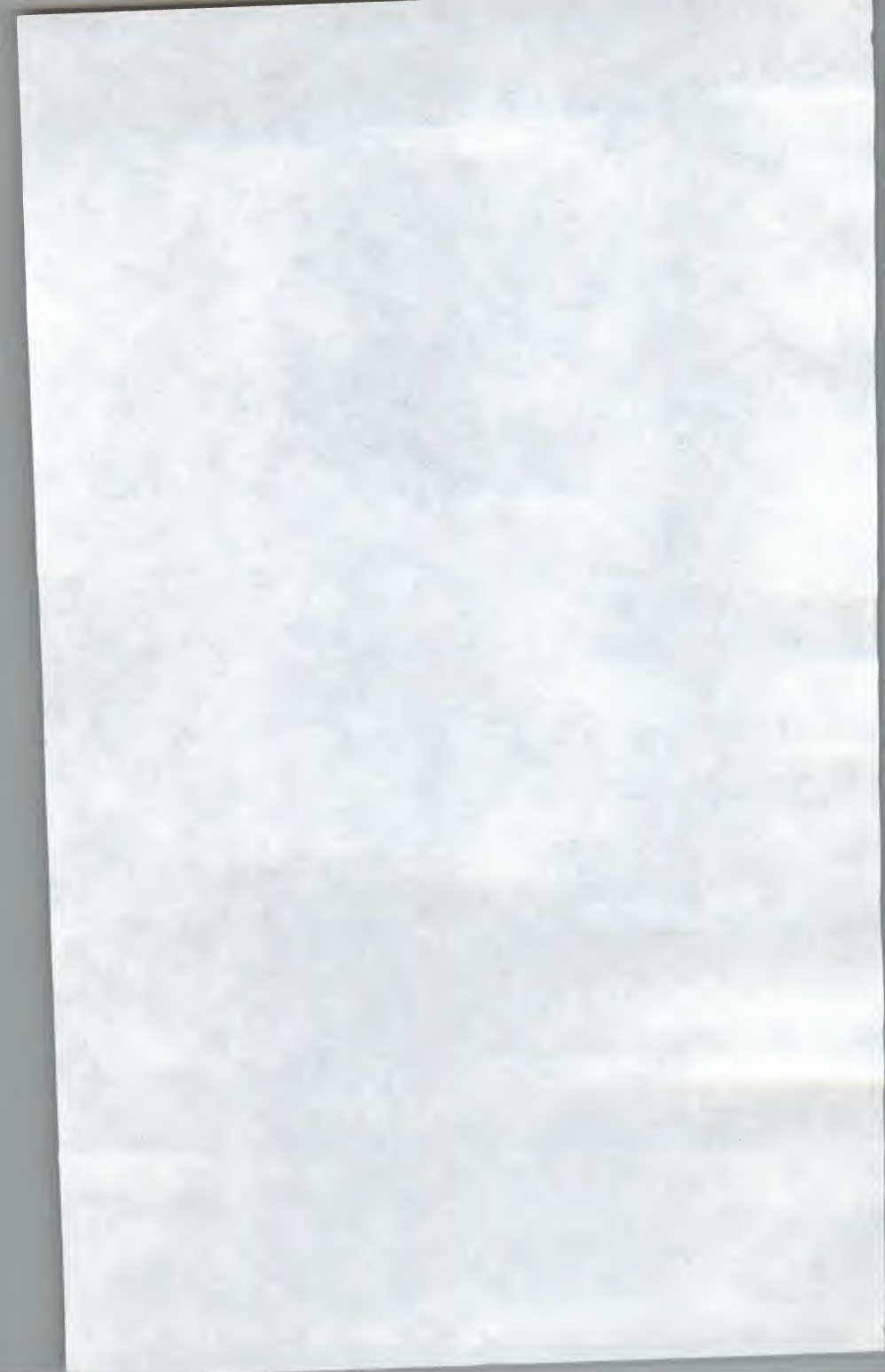
Contact: Paul Jorgensen
(206) 456-3535

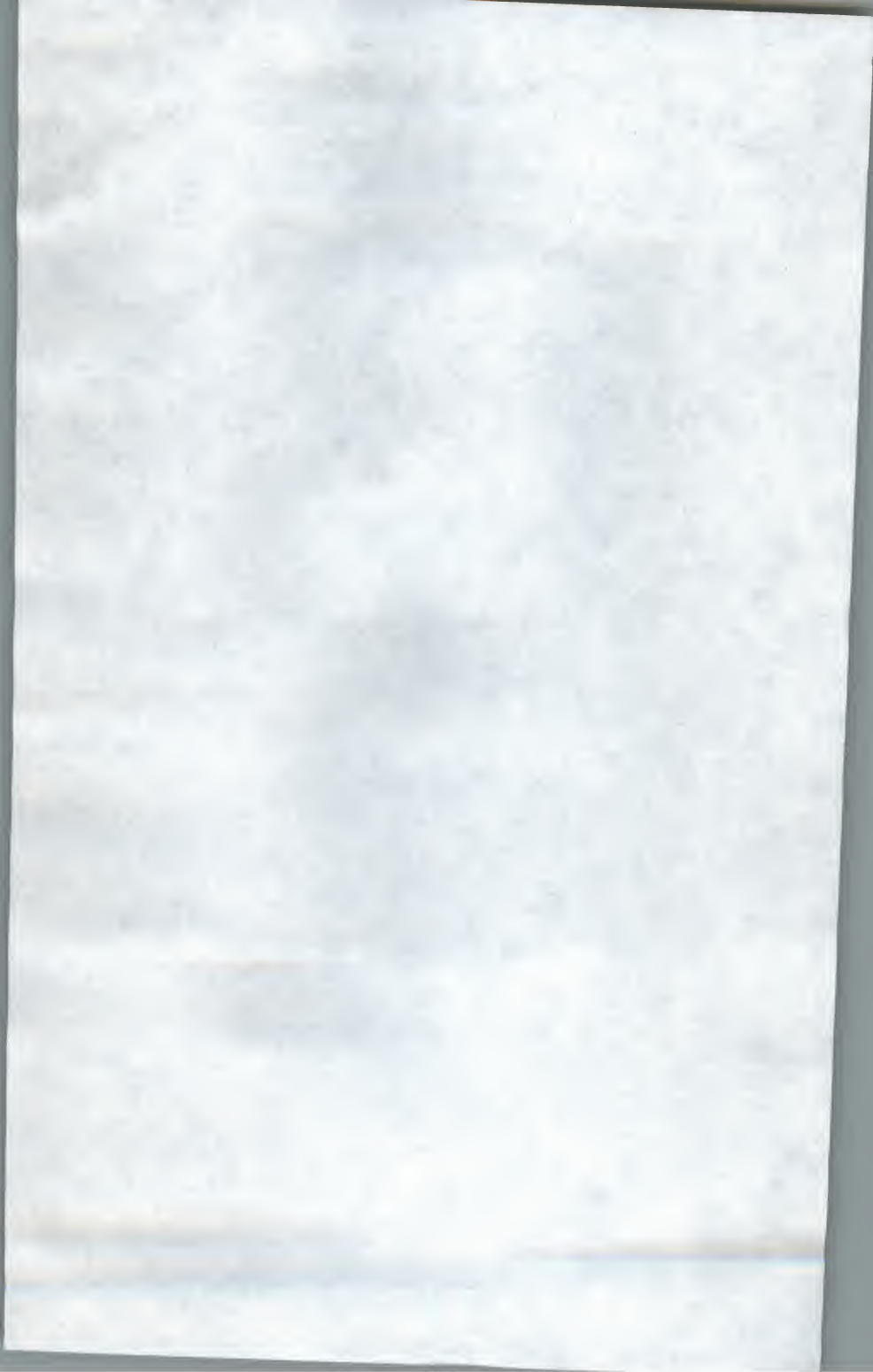
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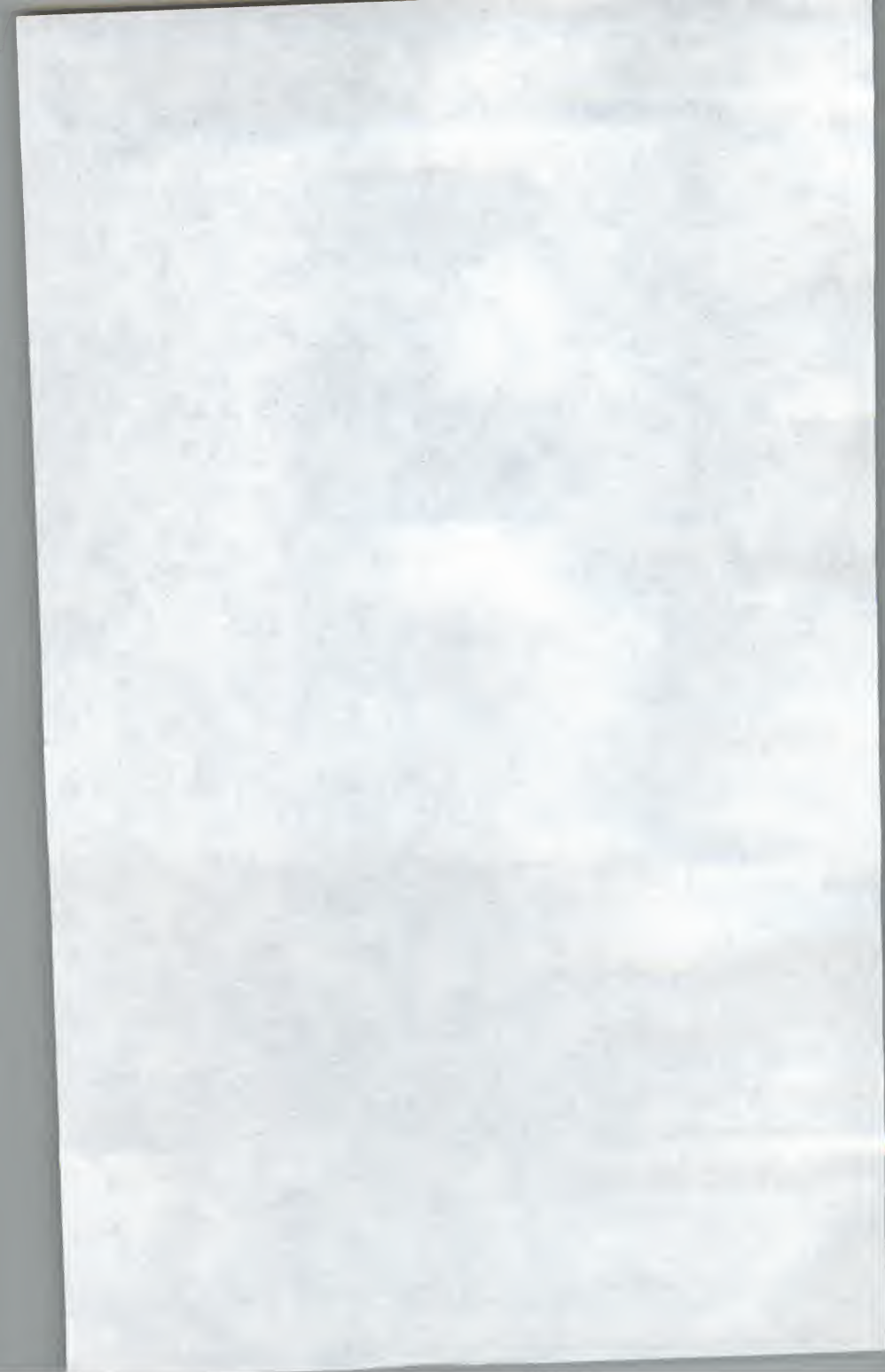


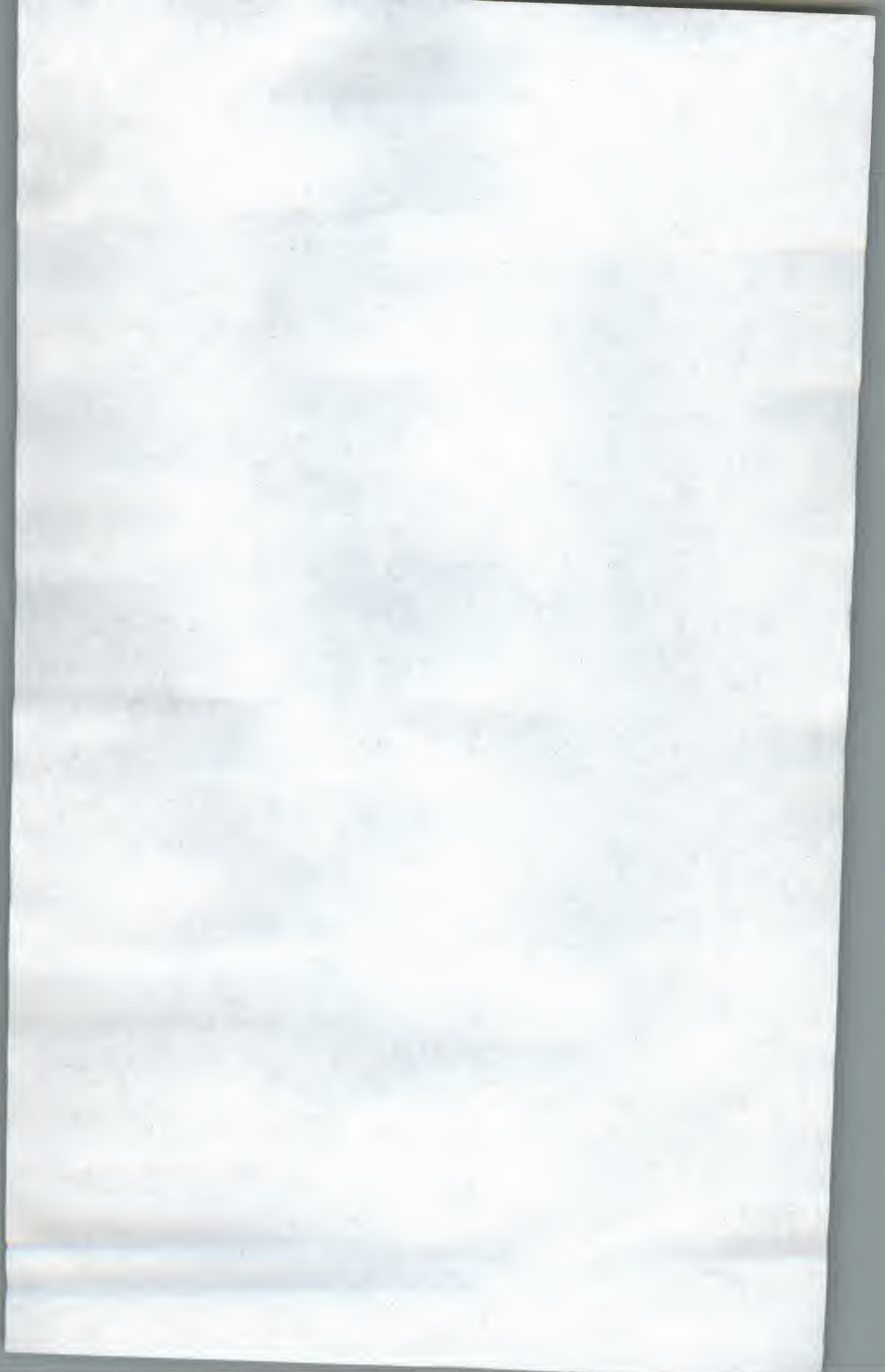


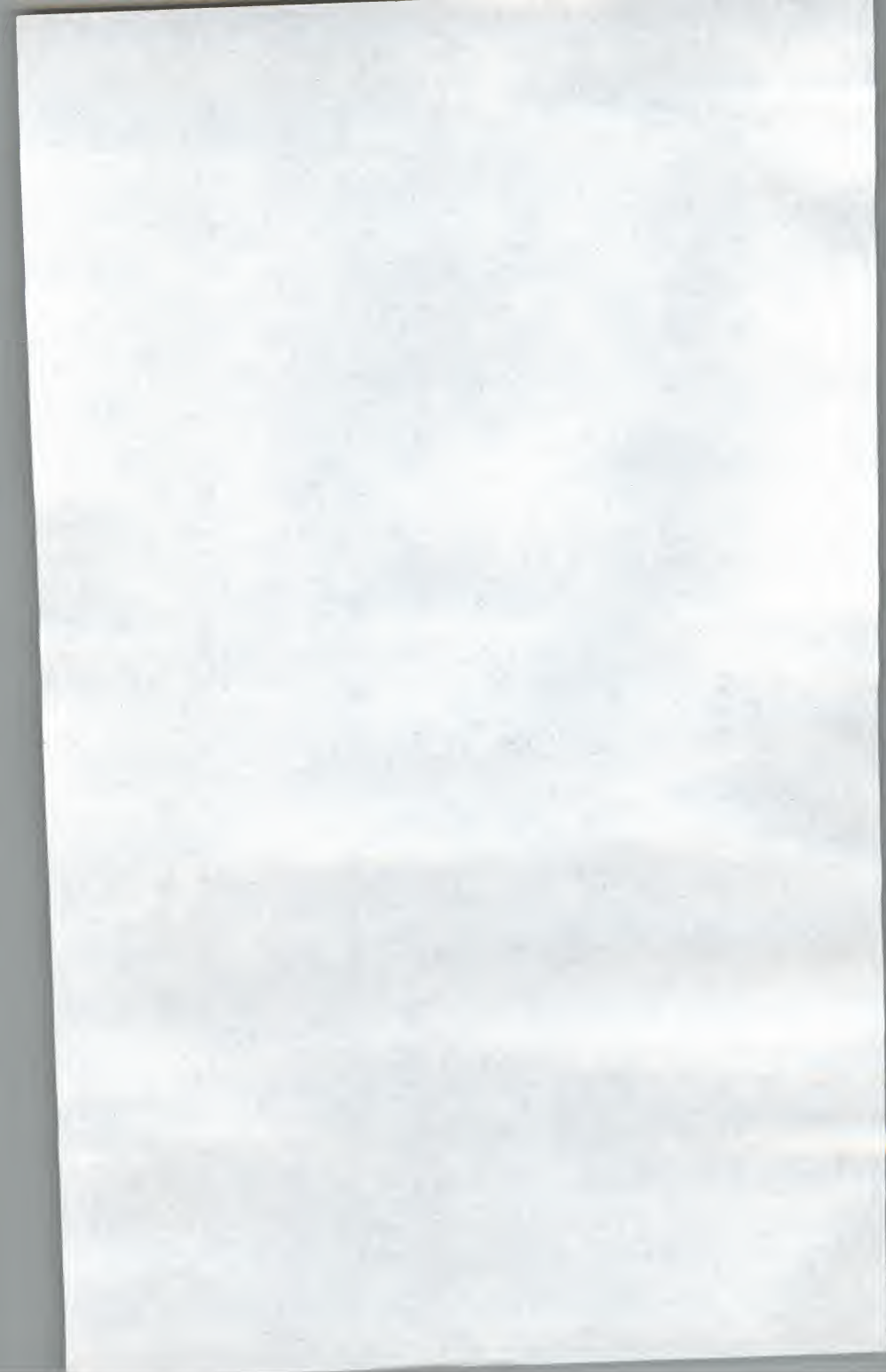


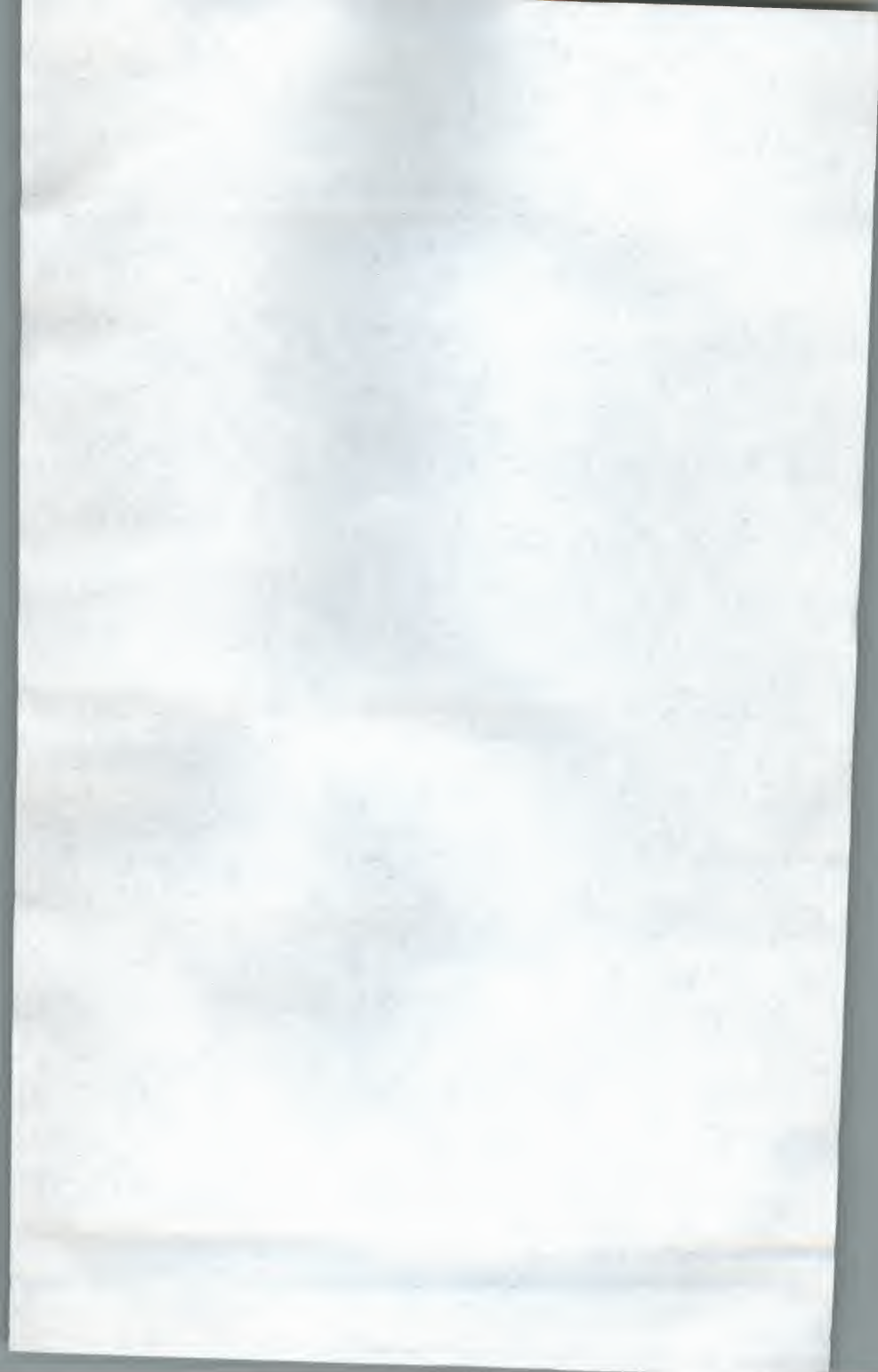


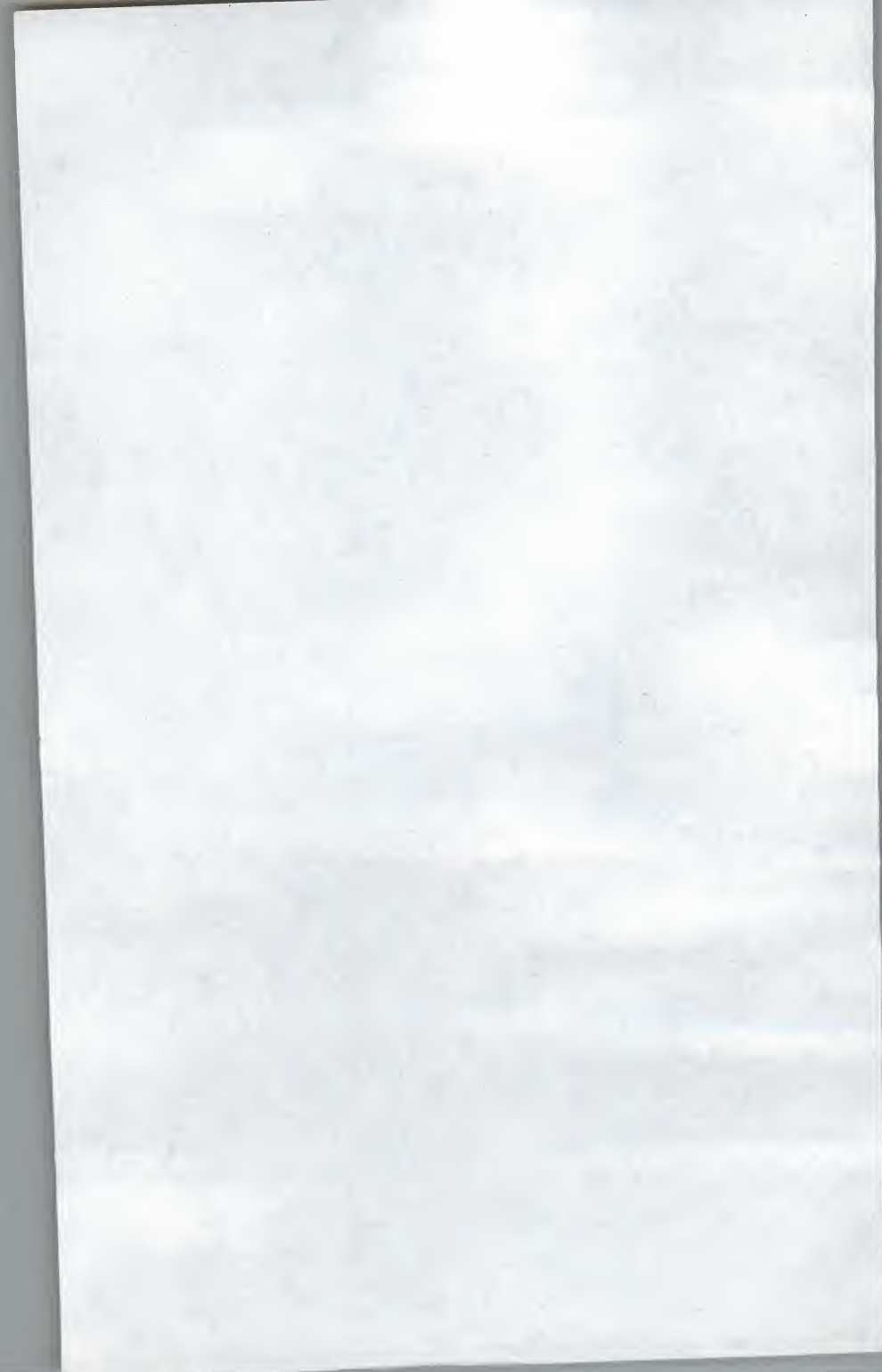


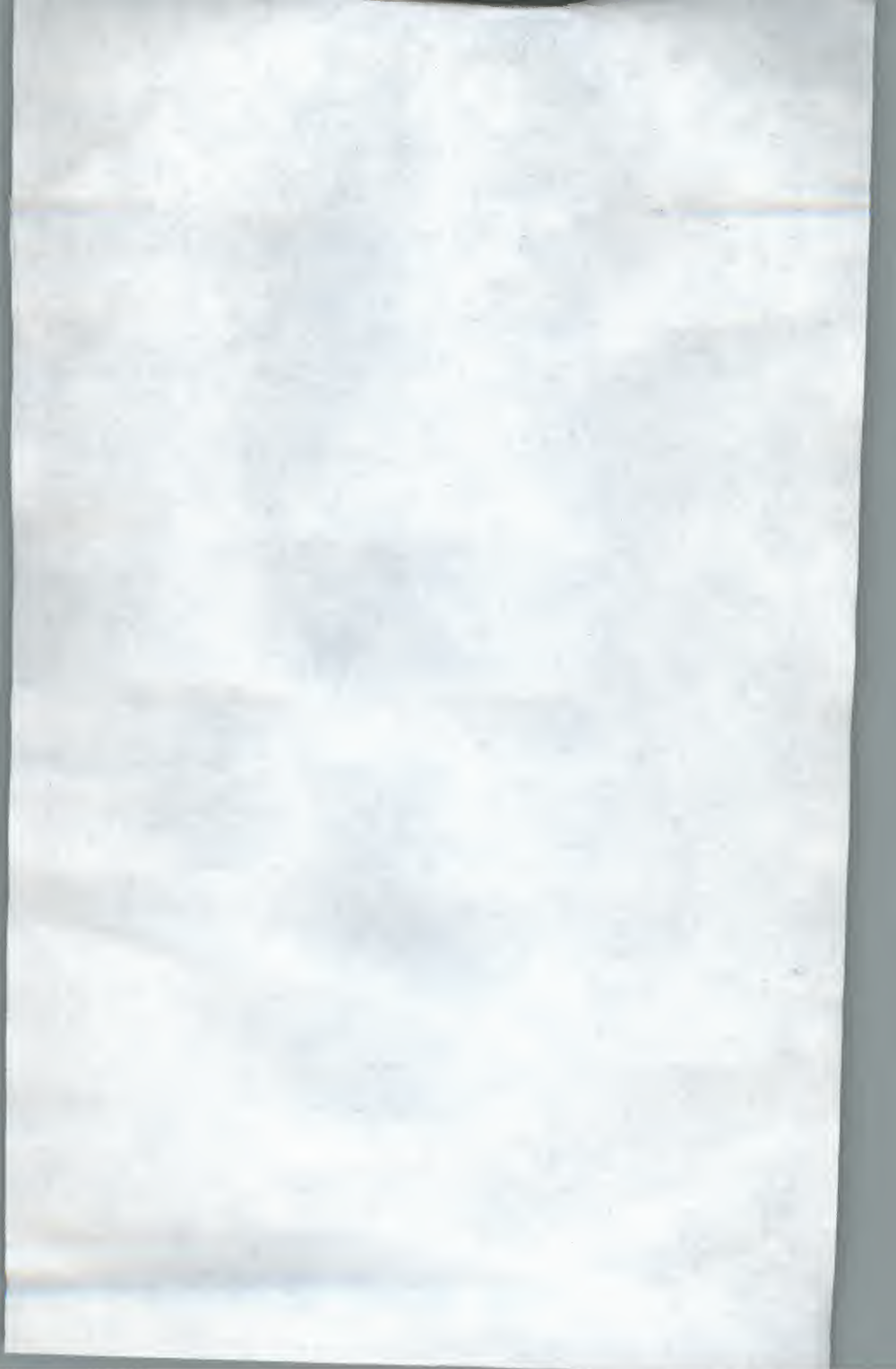


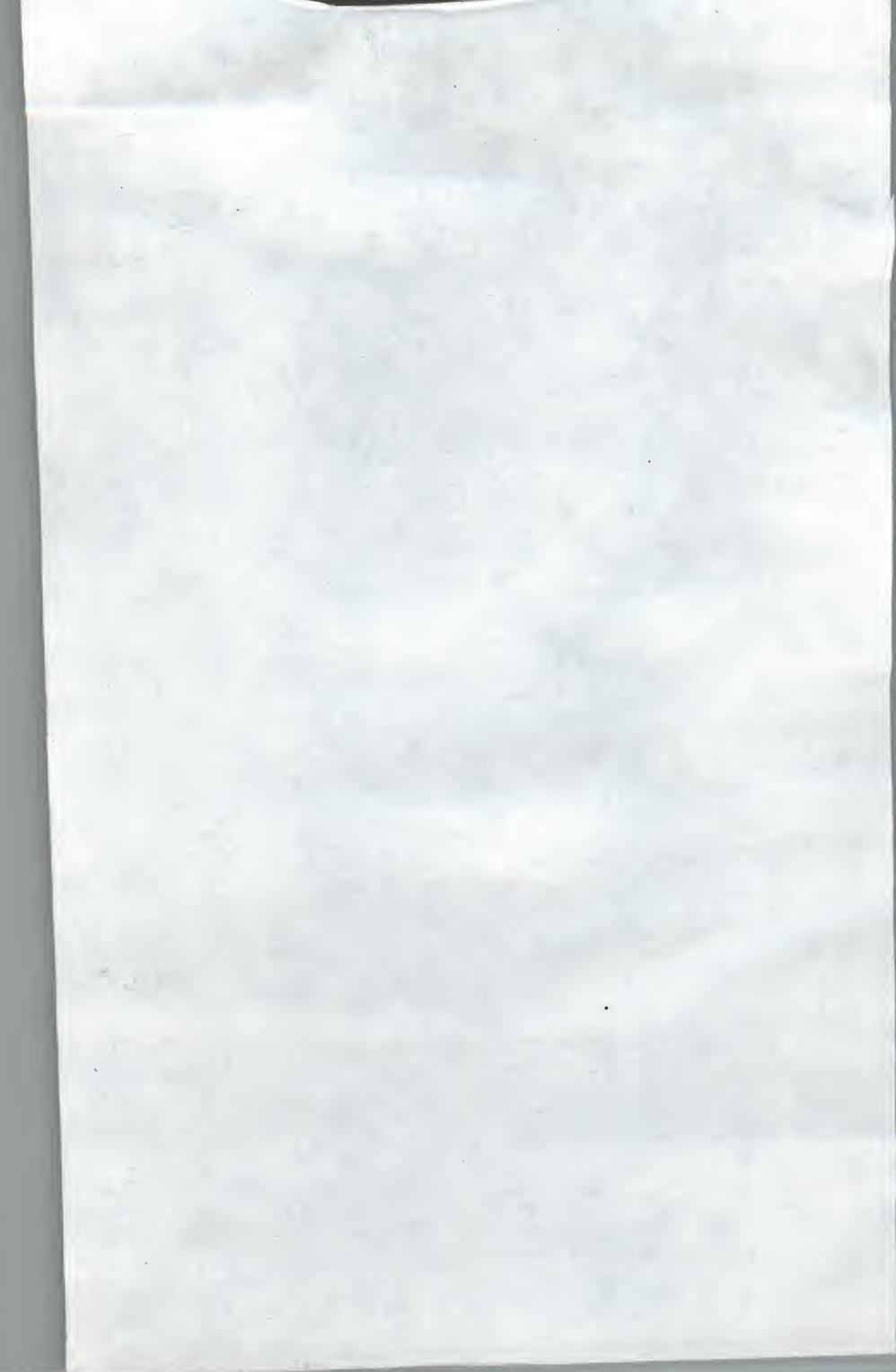














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